

# EP-CA22

## OSS(Open Source Software) License Used by the Product

1. See “gpl\_lgpl\_patch.zip” for the patch files of GPL/LGP.
2. See “licenses.zip” for license files other than those listed in this file.

○OpenSTLinux4.1.1

- Git

<https://github.com/STMicroelectronics/oe-manifest.git>

### License

SLA0048 Rev4/March 2018

**BY INSTALLING COPYING, DOWNLOADING, ACCESSING OR OTHERWISE USING THIS SOFTWARE PACKAGE OR ANY PART THEREOF (AND THE RELATED DOCUMENTATION) FROM STMICROELECTRONICS INTERNATIONAL N.V, SWISS BRANCH AND/OR ITS AFFILIATED COMPANIES (STMICROELECTRONICS), THE RECIPIENT, ON BEHALF OF HIMSELF OR HERSELF, OR ON BEHALF OF ANY ENTITY BY WHICH SUCH RECIPIENT IS EMPLOYED AND/OR ENGAGED AGREES TO BE BOUND BY THIS SOFTWARE PACKAGE LICENSE AGREEMENT.**

Under STMicroelectronics' intellectual property rights and subject to applicable licensing terms for any third-party software incorporated in this software package and applicable Open Source Terms (as defined here below), the redistribution, reproduction and

use in source and binary forms of the software package or any part thereof, with or without modification, are permitted provided that the following conditions are met:

1. Redistribution of source code (modified or not) must retain any copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form, except as embedded into microcontroller or microprocessor device manufactured by or for STMicroelectronics or a software update for such device, must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of STMicroelectronics nor the names of other contributors to this software package may be used to endorse or promote products derived from this software package or part thereof without specific written permission.
4. This software package or any part thereof, including modifications and/or derivative works of this software package, must be used and execute solely and exclusively on or in combination with a microcontroller or a microprocessor devices manufactured by or for STMicroelectronics.
5. No use, reproduction or redistribution of this software package partially or totally may be done in any manner that would subject this software package to any Open Source Terms (as defined below).
6. Some portion of the software package may contain software subject to Open Source Terms (as defined below) applicable for each such portion (“Open Source Software”), as further specified in the software package. Such Open Source Software is supplied under the applicable Open Source Terms and is not subject to the terms and conditions of license hereunder. “Open Source Terms” shall mean any open source license which requires as part of distribution of software that the source code of such software is distributed therewith or otherwise made available, or open source license that substantially complies with the Open Source definition specified at [www.opensource.org](http://www.opensource.org) and any other comparable open source license such as for example GNU General Public License (GPL), Eclipse Public License (EPL), Apache Software License, BSD license and MIT license.
7. This software package may also include third party software as expressly specified in the software package subject to specific license terms from such third parties. Such third party software is supplied under such specific license terms and is not subject to the terms and conditions of license hereunder. By installing copying, downloading, accessing or otherwise using this software package, the

recipient agrees to be bound by such license terms with regard to such third party software.

8. STMicroelectronics has no obligation to provide any maintenance, support or updates for the software package.

9. The software package is and will remain the exclusive property of STMicroelectronics and its licensors. The recipient will not take any action that jeopardizes STMicroelectronics and its licensors' proprietary rights or acquire any rights in the software package, except the limited rights specified hereunder.

10. The recipient shall comply with all applicable laws and regulations affecting the use of the software package or any part thereof including any applicable export control law or regulation.

11. Redistribution and use of this software package partially or any part thereof other than as permitted under this license is void and will automatically terminate your rights under this license.

**THIS SOFTWARE PACKAGE IS PROVIDED BY STMICROELECTRONICS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS, IMPLIED OR STATUTORY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS ARE DISCLAIMED TO THE FULLEST EXTENT PERMITTED BY LAW. IN NO EVENT SHALL STMICROELECTRONICS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE PACKAGE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.**

**EXCEPT AS EXPRESSLY PERMITTED HEREUNDER AND SUBJECT TO THE APPLICABLE LICENSING TERMS FOR ANY THIRD-PARTY SOFTWARE INCORPORATED IN THE SOFTWARE PACKAGE AND OPEN SOURCE TERMS AS APPLICABLE, NO LICENSE OR OTHER RIGHTS, WHETHER EXPRESS OR IMPLIED, ARE GRANTED UNDER ANY PATENT OR OTHER**

**INTELLECTUAL PROPERTY RIGHTS OF STMICROELECTRONICS OR ANY THIRD PARTY.**

#####

**Vivante End User Software License Terms**

The following are the terms to be agreed to by end users of Vivante Software licensed herein:

Copyright 2003-2017 Vivante Corporation, all rights reserved.

Use, reproduction and redistribution of this software in binary form, without modification and solely for use in conjunction with STMicroelectronics semiconductor chips with the Linux operating system environment that contain Vivante Corporation's technology, are permitted provided that the following conditions are met:

- \* Redistributions must reproduce the above copyright notice, this list of conditions and the following disclaimers in the documentation and/or other materials provided with the distribution.
  
- \* Neither the name nor trademarks of STMicroelectronics International N.V. nor any other STMicroelectronics company (nor Vivante Corporation unless permission is granted separately by Vivante Corporation) may be used to endorse or promote products derived from this software without specific prior written permission.
  
- \* No reverse engineering, decompilation or disassembly of this software is permitted.

\* No use, reproduction or redistribution of this software may be done in any manner that may cause this software to be redistributed as part of the Linux kernel or in any other manner that would subject this software to the terms of the GNU General Public License, the GNU Lesser General Public License, or any other copyleft license.

**DISCLAIMERS:**

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER(S) "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT, ARE DISCLAIMED. IN NO EVENT SHALL STMICROELECTRONICS INTERNATIONAL N.V. NOR ANY OTHER STMICROELECTRONICS COMPANY (NOR VIVANTE CORPORATION) BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE DELIVERY OF THIS SOFTWARE DOES NOT CONVEY ANY LICENSE, WHETHER EXPRESS OR IMPLIED, TO ANY THIRD-PARTY INTELLECTUAL PROPERTY RIGHTS.

EXCEPT THE LIMITED RIGHT TO USE, REPRODUCE AND REDISTRIBUTE THIS SOFTWARE IN BINARY FORM, NO LICENSE OR OTHER RIGHTS, WHETHER EXPRESS OR IMPLIED, ARE GRANTED UNDER ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHTS OF STMICROELECTRONICS INTERNATIONAL N.V. OR ANY OTHER STMICROELECTRONICS COMPANY (OR VIVANTE CORPORATION).

#####

**### CYPRESS WIRELESS CONNECTIVITY DEVICES**

**### DRIVER END USER LICENSE AGREEMENT (SOURCE AND BINARY DISTRIBUTION)**

PLEASE READ THIS END USER LICENSE AGREEMENT ("Agreement") CAREFULLY BEFORE DOWNLOADING, INSTALLING, OR USING THIS SOFTWARE, ANY ACCOMPANYING DOCUMENTATION, OR ANY UPDATES PROVIDED BY CYPRESS ("Software"). BY DOWNLOADING, INSTALLING, OR USING THE SOFTWARE, YOU ARE AGREEING TO BE BOUND BY THIS AGREEMENT. IF YOU DO NOT AGREE TO ALL OF THE TERMS OF THIS AGREEMENT, PROMPTLY RETURN AND DO NOT USE THE SOFTWARE. IF YOU HAVE PURCHASED THE SOFTWARE, YOUR RIGHT TO RETURN THE SOFTWARE EXPIRES 30 DAYS AFTER YOUR PURCHASE AND APPLIES ONLY TO THE ORIGINAL PURCHASER.

Software Provided in Binary Code Form. This paragraph applies to any Software provided in binary code form. Subject to the terms and conditions of this Agreement, Cypress Semiconductor Corporation ("Cypress") grants you a non-exclusive, non-transferable license under its copyright rights in the Software to reproduce and distribute the Software in object code form only, solely for use in connection with Cypress integrated circuit products ("Purpose").

Software Provided in Source Code Form. This paragraph applies to any Software provided in source code form ("Cypress Source Code"). Subject to the terms and conditions of this Agreement, Cypress grants you a non-exclusive, non-transferable license under its copyright rights in the Cypress Source Code to reproduce, modify, compile, and distribute the Cypress Source Code (whether in source code form or as compiled into binary code form) solely for the Purpose. Cypress retains ownership of the Cypress Source Code and any compiled

version thereof. Subject to Cypress' ownership of the underlying Cypress Source Code, you retain ownership of any modifications you make to the Cypress Source Code. You agree not to remove any Cypress copyright or other notices from the Cypress Source Code and any modifications thereof. Any reproduction, modification, translation, compilation, or representation of the Cypress Source Code except as permitted in this paragraph is prohibited without the express written permission of Cypress.

**Free and Open Source Software.** Portions of the Software may be licensed under free and/or open source licenses such as the GNU General Public License ("FOSS"). FOSS is subject to the applicable license agreement and not this Agreement. If you are entitled to receive the source code from Cypress for any FOSS included with the Software, either the source code will be included with the Software or you may obtain the source code at no charge from . The applicable license terms will accompany each source code package. To review the license terms applicable to any FOSS for which Cypress is not required to provide you with source code, please see the Software's installation directory on your computer.

**Proprietary Rights.** The Software, including all intellectual property rights therein, is and will remain the sole and exclusive property of Cypress or its suppliers. Except as otherwise expressly provided in this Agreement, you may not: (i) modify, adapt, or create derivative works based upon the Software; (ii) copy the Software; (iii) except and only to the extent explicitly permitted by applicable law despite this limitation, decompile, translate, reverse engineer, disassemble or otherwise reduce the Software to human-readable form; or (iv) use the Software other than for the Purpose.

**No Support.** Cypress may, but is not required to, provide technical support for the Software.

**Term and Termination.** This Agreement is effective until terminated, and either party may terminate this Agreement at any time with or without cause. Your license rights under this Agreement will terminate immediately without notice from Cypress if you fail to comply with any provision of this Agreement. Upon termination, you must destroy all copies of Software in your possession or control.

Termination of this Agreement will not affect any licenses validly granted as of the termination date to any end users of the Software. The following paragraphs shall survive any termination of this Agreement: "Free and Open Source Software," "Proprietary Rights," "Compliance With Law," "Disclaimer," "Limitation of Liability," and "General."

**Compliance With Law.** Each party agrees to comply with all applicable laws, rules and regulations in connection with its activities under this Agreement. Without limiting the foregoing, the Software may be subject to export control laws and regulations of the United States and other countries. You agree to comply strictly with all such laws and regulations and acknowledge that you have the responsibility to obtain licenses to export, re-export, or import the Software.

**Disclaimer.** TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, CYPRESS MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARD TO THE SOFTWARE, INCLUDING, BUT NOT LIMITED TO, INFRINGEMENT AND THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Cypress reserves the right to make changes to the Software without notice. Cypress does not assume any liability arising out of the application or use of Software or any product or circuit described in the Software. Cypress does not authorize its products for use as critical components in life-support systems where a malfunction or failure may reasonably be expected to result in significant injury to the user. The inclusion of Cypress' product in a life-support system or application implies that the manufacturer of such system or application assumes all risk of such use and in doing so indemnifies Cypress against all charges.

**Limitation of Liability.** IN NO EVENT WILL CYPRESS OR ITS SUPPLIERS, RESELLERS, OR DISTRIBUTORS BE LIABLE FOR ANY LOST REVENUE, PROFIT, OR DATA, OR FOR SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL, OR PUNITIVE DAMAGES HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY, ARISING OUT OF THE USE OF OR INABILITY TO USE THE SOFTWARE EVEN IF CYPRESS OR ITS SUPPLIERS, RESELLERS, OR DISTRIBUTORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL CYPRESS' OR ITS SUPPLIERS' RESELLERS', OR

DISTRIBUTORS' TOTAL LIABILITY TO YOU, WHETHER IN CONTRACT, TORT (INCLUDING NEGLIGENCE), OR OTHERWISE, EXCEED THE PRICE PAID BY YOU FOR THE SOFTWARE. THE FOREGOING LIMITATIONS SHALL APPLY EVEN IF THE ABOVE-STATED WARRANTY FAILS OF ITS ESSENTIAL PURPOSE. BECAUSE SOME STATES OR JURISDICTIONS DO NOT ALLOW LIMITATION OR EXCLUSION OF CONSEQUENTIAL OR INCIDENTAL DAMAGES, THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

**Restricted Rights.** The Software under this Agreement is commercial computer software as that term is described in 48 C.F.R. 252.227-7014(a)(1). If acquired by or on behalf of a civilian agency, the U.S. Government acquires this commercial computer software and/or commercial computer software documentation subject to the terms of this Agreement as specified in 48 C.F.R. 12.212 (Computer Software) and 12.211 (Technical Data) of the Federal Acquisition Regulations ("FAR") and its successors. If acquired by or on behalf of any agency within the Department of Defense ("DOD"), the U.S. Government acquires this commercial computer software and/or commercial computer software documentation subject to the terms of this Agreement as specified in 48 C.F.R. 227.7202-3 of the DOD FAR Supplement ("DFAR") and its successors.

**General.** This Agreement will bind and inure to the benefit of each party's successors and assigns, provided that you may not assign or transfer this Agreement, in whole or in part, without Cypress' written consent. This Agreement shall be governed by and construed in accordance with the laws of the State of California, United States of America, as if performed wholly within the state and without giving effect to the principles of conflict of law. The parties consent to personal and exclusive jurisdiction of and venue in, the state and federal courts within Santa Clara County, California; provided however, that nothing in this Agreement will limit Cypress' right to bring legal action in any venue in order to protect or enforce its intellectual property rights. No failure of either party to exercise or enforce any of its rights under this Agreement will act as a waiver of such rights. If any portion hereof is found to be void or unenforceable, the remaining provisions of this Agreement shall remain in full force and effect. This Agreement is the complete and exclusive agreement between the parties with respect to the subject matter hereof, superseding and replacing any and all prior

agreements, communications, and understandings (both written and oral) regarding such subject matter. Any notice to Cypress will be deemed effective when actually received and must be sent to Cypress Semiconductor Corporation, ATTN: Chief Legal Officer, 198 Champion Court, San Jose, CA 95134 USA.

#####

**BROADCOM BCM43XX**

**SOFTWARE LICENSE AGREEMENT**

The accompanying software in binary code form (“Software”), is licensed to you, or, if you are accepting on behalf of an entity, the entity and its affiliates exercising rights hereunder (“Licensee”) subject to the terms of this software license agreement (“Agreement”), unless Licensee and Broadcom Corporation (“Broadcom”) execute a separate written software license agreement governing use of the Software. **ANY USE, REPRODUCTION, OR DISTRIBUTION OF THE SOFTWARE CONSTITUTES LICENSEE’S ACCEPTANCE OF THIS AGREEMENT.**

1. License. Subject to the terms and conditions of this Agreement, Broadcom hereby grants to Licensee a limited, non-exclusive, non-transferable, royalty-free license: (i) to use and integrate the Software with any other software; and (ii) to reproduce and distribute the Software complete, unmodified, and as provided by Broadcom, solely for use with Broadcom proprietary integrated circuit product(s) sold by Broadcom with which the Software was designed to be used, or their successors.

2. **Restrictions.** Licensee shall distribute Software with a copy of this Agreement. Licensee shall not remove, efface or obscure any copyright or trademark notices from the Software. Reproductions of the Broadcom copyright notice shall be included with each copy of the Software, except where such Software is embedded in a manner not readily accessible to the end user.

Licensee shall not: (i) use, license, sell or otherwise distribute the Software except as provided in this Agreement; (ii) attempt to modify in any way, reverse engineer, decompile or disassemble any portion of the Software; or (iii) use the Software or other material in violation of any applicable law or regulation, including but not limited to any regulatory agency. This Agreement shall automatically terminate upon Licensee's failure to comply with any of the terms of this Agreement. In such event, Licensee will destroy all copies of the Software and its component parts.

3. **Ownership.** The Software is licensed and not sold. Title to and ownership of the Software, including all intellectual property rights thereto, and any portion thereof remain with Broadcom or its licensors. Licensee hereby covenants that it will not assert any claim that the Software created by or for Broadcom infringe any intellectual property right owned or controlled by Licensee.

4. **Disclaimer.** THE SOFTWARE IS OFFERED "AS IS," AND BROADCOM PROVIDES AND GRANTS AND LICENSEE RECEIVES NO SUPPORT AND NO WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR CONDUCT WITH LICENSEE, OR OTHERWISE.

BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A SPECIFIC PURPOSE, OR NONINFRINGEMENT CONCERNING THE SOFTWARE OR ANY UPGRADES TO OR DOCUMENTATION FOR THE SOFTWARE. WITHOUT LIMITATION OF THE ABOVE, BROADCOM GRANTS NO WARRANTY THAT THE SOFTWARE IS ERROR-FREE OR WILL OPERATE WITHOUT INTERRUPTION, AND GRANTS NO WARRANTY REGARDING ITS USE OR THE RESULTS THEREFROM INCLUDING, WITHOUT LIMITATION, ITS CORRECTNESS, ACCURACY, OR RELIABILITY. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM OR ANY OF ITS LICENSORS HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES, HOWEVER CAUSED

AND ON ANY THEORY OF LIABILITY, WHETHER FOR BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, ARISING OUT OF THIS AGREEMENT OR USE, REPRODUCTION, OR DISTRIBUTION OF THE SOFTWARE, INCLUDING BUT NOT LIMITED TO LOSS OF DATA AND LOSS OF PROFITS, EVEN IF SUCH PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.

5. **Export Laws.** LICENSEE UNDERSTANDS AND AGREES THAT THE SOFTWARE IS SUBJECT TO UNITED STATES AND OTHER APPLICABLE EXPORT-RELATED LAWS AND REGULATIONS AND THAT LICENSEE MAY NOT EXPORT, RE-EXPORT OR TRANSFER THE SOFTWARE OR ANY DIRECT PRODUCT OF THE SOFTWARE EXCEPT AS PERMITTED UNDER THOSE LAWS. WITHOUT LIMITING THE FOREGOING, EXPORT, RE-EXPORT, OR TRANSFER OF THE SOFTWARE TO CUBA, IRAN, NORTH KOREA, SUDAN, AND SYRIA IS PROHIBITED.

## ○Image Content

List of packages used during the different boot phases:

Recipe Name	Version	License
linux-stm32mp	5.15.118-stm32mp-r2.1	GPL-2.0-only
optee-os-stm32mp	3.16.0-stm32mp-r2.1	BSD-2-Clause & BSD-3-Clause
st-initrd	1.0	MIT
tf-a-stm32mp	v2.6-stm32mp-r2.1	BSD-3-Clause
u-boot-stm32mp	v2021.10-stm32mp-r2.1	GPL-2.0-or-later

List of packages present on image (image-bootfs)

Recipe Name	Package Name	Version	License	Description
linux-stm32mp	kernel-imagebootfs	5.15.118-stm32mp-r2.1	GPL-2.0-only	Linux STM32MP Kernel
st-initrd	st-initrd	1.0	MIT	ST InitRD installation package for st-image-resize-initrd image(s)
stm32mp-extlinux	stm32mp-extlinux	3.1.1	MIT	Provide 'extlinux.conf' file for U-Boot
u-boot-stm32mp-splash	u-boot-stm32mp-splash	2018.11	Proprietary	Universal Boot Loader Splash Screen for stm32mp embedded devices

List of packages present on image (image-core)

Recipe Name	Package Name	Version	License	Description
<b>base-files</b>	base-files	3.0.14	GPL-2.0-only	Miscellaneous files for the base system
<b>bash</b>	bash	5.1.16	GPL-3.0-or-later	An sh-compatible command language interpreter
<b>build-info-openstlinux</b>	build-info-openstlinux	1.0	MIT	Writes build information to target filesystem on /etc/build
<b>busybox</b>	busybox	1.35.0	GPL-2.0-only & bzip2-1.0.4	Tiny versions of many common UNIX utilities in a single small executable
<b>busybox</b>	busybox-hwclock	1.35.0	GPL-2.0-only & bzip2-1.0.4	Tiny versions of many common UNIX utilities in a single small executable
<b>busybox</b>	busybox-syslog	1.35.0	GPL-2.0-only & bzip2-1.0.4	Tiny versions of many common UNIX utilities in a single small executable
<b>busybox</b>	busybox-udhcpd	1.35.0	GPL-2.0-only & bzip2-1.0.4	Tiny versions of many common UNIX utilities in a single small executable
<b>ca-certificates</b>	ca-certificates	20211016	GPL-2.0-or-later & MPL-2.0	Common CA certificates
<b>connman</b>	connman	1.42	GPL-2.0-only	A daemon for managing internet connections within embedded devices

<b>connman</b>	connman-client	1.42	GPL-2.0-only	A daemon for managing internet connections within embedded devices
<b>connman</b>	connman-tools	1.42	GPL-2.0-only	A daemon for managing internet connections within embedded devices
<b>cronie</b>	cronie	1.6.1	ISC & BSD-3-Clause & BSD-2-Clause & GPL-2.0-or-later	Cron daemon for executing programs at set times
<b>dbus</b>	dbus-1	1.14.6	AFL-2.1   GPL-2.0-or-later	D-Bus message bus
<b>dbus</b>	dbus-common	1.14.6	AFL-2.1   GPL-2.0-or-later	D-Bus message bus
<b>dbus</b>	dbus-tools	1.14.6	AFL-2.1   GPL-2.0-or-later	D-Bus message bus
<b>devmem2</b>	devmem2	2.0	GPL-2.0-or-later	Simple program to read/write from/to any location in memory
<b>dropbear</b>	dropbear	2020.81	MIT & BSD-3-Clause & BSD-2-Clause & PD	A lightweight SSH and SCP implementation
<b>e2fsprogs</b>	e2fsprogs	1.46.5	GPL-2.0-only & LGPL-2.0-only & BSD-3-Clause & MIT	Ext2 Filesystem Utilities

<b>e2fsprogs</b>	e2fsprogs-badblocks	1.46.5	GPL-2.0-only	Ext2 Filesystem Utilities
<b>e2fsprogs</b>	e2fsprogs-dumpe2fs	1.46.5	GPL-2.0-only	Ext2 Filesystem Utilities
<b>e2fsprogs</b>	e2fsprogs-e2fsck	1.46.5	GPL-2.0-only	Ext2 Filesystem Utilities
<b>e2fsprogs</b>	e2fsprogs-mke2fs	1.46.5	GPL-2.0-only	Ext2 Filesystem Utilities
<b>e2fsprogs</b>	e2fsprogs-tune2fs	1.46.5	GPL-2.0-only	Ext2 Filesystem Utilities
<b>eudev</b>	eudev	3.2.10	GPL-2.0-or-later & LGPL-2.1-or-later	eudev is a fork of systemd's udev
<b>eudev</b>	eudev-hwdb	3.2.10	GPL-2.0-or-later & LGPL-2.1-or-later	eudev is a fork of systemd's udev
<b>fscryptctl</b>	fscryptctl	1.0.0	Apache-2.0	low-level tool handling Linux filesystem encryption
<b>fwu-gen- metadata</b>	fwu-gen-metadata	1.0	BSD-2-Clause	Tool to create FWU Metadata struct in Python
<b>gcc-sanitizers</b>	gcc-sanitizers	11.3.0	NCSA   MIT	GNU cc and gcc C compilers
<b>glibc-locale</b>	glibc-binary- localedata-en-us	2.35	GPL-2.0-only & LGPL-2.1-only	binary locale definition for en-us
<b>gobject- introspection</b>	gobject-introspection	1.72.0	LGPL-2.0-or-later & GPL-2.0-or-later & MIT	Middleware layer between GObject- using C libraries and language bindings
<b>hdparm</b>	hdparm	9.63	BSD-2-Clause & hdparm	Utility for viewing/manipulating IDE disk drive/driver parameters
<b>i2c-tools</b>	i2c-tools	4.3	GPL-2.0-or-later	Set of i2c tools for linux

<b>init-ifupdown</b>	init-ifupdown	1.0	GPL-2.0-only	Basic TCP/IP networking init scripts and configuration files
<b>init-system-helpers</b>	init-system-helpers-service	1.62	BSD-3-Clause & GPL-2.0-only	helper tools for all init systems
<b>initscripts</b>	initscripts	1.0	GPL-2.0-only	SysV init scripts
<b>initscripts</b>	initscripts-functions	1.0	GPL-2.0-only	SysV init scripts
<b>iptables</b>	iptables	1.8.7	GPL-2.0-or-later	Tools for managing kernel packet filtering capabilities
<b>iptables</b>	iptables-module-ip6t-ah	1.8.7	GPL-2.0-or-later	iptables module ip6t-ah
<b>iptables</b>	iptables-module-ip6t-dnat	1.8.7	GPL-2.0-or-later	iptables module ip6t-dnat
<b>iptables</b>	iptables-module-ip6t-dnpt	1.8.7	GPL-2.0-or-later	iptables module ip6t-dnpt
<b>iptables</b>	iptables-module-ip6t-dst	1.8.7	GPL-2.0-or-later	iptables module ip6t-dst
<b>iptables</b>	iptables-module-ip6t-eui64	1.8.7	GPL-2.0-or-later	iptables module ip6t-eui64
<b>iptables</b>	iptables-module-ip6t-frag	1.8.7	GPL-2.0-or-later	iptables module ip6t-frag
<b>iptables</b>	iptables-module-ip6t-hbh	1.8.7	GPL-2.0-or-later	iptables module ip6t-hbh

<b>iptables</b>	iptables-module- ip6t-hl	1.8.7	GPL-2.0-or-later	iptables module ip6t-hl
<b>iptables</b>	iptables-module- ip6t-icmp6	1.8.7	GPL-2.0-or-later	iptables module ip6t-icmp6
<b>iptables</b>	iptables-module- ip6t-ipv6header	1.8.7	GPL-2.0-or-later	iptables module ip6t-ipv6header
<b>iptables</b>	iptables-module- ip6t-log	1.8.7	GPL-2.0-or-later	iptables module ip6t-log
<b>iptables</b>	iptables-module- ip6t-masquerade	1.8.7	GPL-2.0-or-later	iptables module ip6t-masquerade
<b>iptables</b>	iptables-module- ip6t-mh	1.8.7	GPL-2.0-or-later	iptables module ip6t-mh
<b>iptables</b>	iptables-module- ip6t-netmap	1.8.7	GPL-2.0-or-later	iptables module ip6t-netmap
<b>iptables</b>	iptables-module- ip6t-redirect	1.8.7	GPL-2.0-or-later	iptables module ip6t-redirect
<b>iptables</b>	iptables-module- ip6t-reject	1.8.7	GPL-2.0-or-later	iptables module ip6t-reject
<b>iptables</b>	iptables-module- ip6t-rt	1.8.7	GPL-2.0-or-later	iptables module ip6t-rt
<b>iptables</b>	iptables-module- ip6t-snat	1.8.7	GPL-2.0-or-later	iptables module ip6t-snat

<b>iptables</b>	iptables-module- ip6t-snpt	1.8.7	GPL-2.0-or-later	iptables module ip6t-snpt
<b>iptables</b>	iptables-module- ip6t-srh	1.8.7	GPL-2.0-or-later	iptables module ip6t-srh
<b>iptables</b>	iptables-module-ipt- ah	1.8.7	GPL-2.0-or-later	iptables module ipt-ah
<b>iptables</b>	iptables-module-ipt- clusterip	1.8.7	GPL-2.0-or-later	iptables module ipt-clusterip
<b>iptables</b>	iptables-module-ipt- dnat	1.8.7	GPL-2.0-or-later	iptables module ipt-dnat
<b>iptables</b>	iptables-module-ipt- ecn	1.8.7	GPL-2.0-or-later	iptables module ipt-ecn
<b>iptables</b>	iptables-module-ipt- icmp	1.8.7	GPL-2.0-or-later	iptables module ipt-icmp
<b>iptables</b>	iptables-module-ipt- log	1.8.7	GPL-2.0-or-later	iptables module ipt-log
<b>iptables</b>	iptables-module-ipt- masquerade	1.8.7	GPL-2.0-or-later	iptables module ipt-masquerade
<b>iptables</b>	iptables-module-ipt- netmap	1.8.7	GPL-2.0-or-later	iptables module ipt-netmap
<b>iptables</b>	iptables-module-ipt- realm	1.8.7	GPL-2.0-or-later	iptables module ipt-realm

<b>iptables</b>	iptables-module-iptables-redirect	1.8.7	GPL-2.0-or-later	iptables module ipt-redirect
<b>iptables</b>	iptables-module-iptables-reject	1.8.7	GPL-2.0-or-later	iptables module ipt-reject
<b>iptables</b>	iptables-module-iptables-snat	1.8.7	GPL-2.0-or-later	iptables module ipt-snat
<b>iptables</b>	iptables-module-iptables-ttl	1.8.7	GPL-2.0-or-later	iptables module ipt-ttl
<b>iptables</b>	iptables-module-iptables-uloop	1.8.7	GPL-2.0-or-later	iptables module ipt-uloop
<b>iptables</b>	iptables-module-xt-addrtype	1.8.7	GPL-2.0-or-later	iptables module xt-addrtype
<b>iptables</b>	iptables-module-xt-audit	1.8.7	GPL-2.0-or-later	iptables module xt-audit
<b>iptables</b>	iptables-module-xt-bpf	1.8.7	GPL-2.0-or-later	iptables module xt-bpf
<b>iptables</b>	iptables-module-xt-cgroup	1.8.7	GPL-2.0-or-later	iptables module xt-cgroup
<b>iptables</b>	iptables-module-xt-checksum	1.8.7	GPL-2.0-or-later	iptables module xt-checksum
<b>iptables</b>	iptables-module-xt-classify	1.8.7	GPL-2.0-or-later	iptables module xt-classify

<b>iptables</b>	iptables-module-xt-cluster	1.8.7	GPL-2.0-or-later	iptables module xt-cluster
<b>iptables</b>	iptables-module-xt-comment	1.8.7	GPL-2.0-or-later	iptables module xt-comment
<b>iptables</b>	iptables-module-xt-connbytes	1.8.7	GPL-2.0-or-later	iptables module xt-connbytes
<b>iptables</b>	iptables-module-xt-connlimit	1.8.7	GPL-2.0-or-later	iptables module xt-connlimit
<b>iptables</b>	iptables-module-xt-connmark	1.8.7	GPL-2.0-or-later	iptables module xt-connmark
<b>iptables</b>	iptables-module-xt-connsecmark	1.8.7	GPL-2.0-or-later	iptables module xt-connsecmark
<b>iptables</b>	iptables-module-xt-contrack	1.8.7	GPL-2.0-or-later	iptables module xt-contrack
<b>iptables</b>	iptables-module-xt-cpu	1.8.7	GPL-2.0-or-later	iptables module xt-cpu
<b>iptables</b>	iptables-module-xt-ct	1.8.7	GPL-2.0-or-later	iptables module xt-ct
<b>iptables</b>	iptables-module-xt-dccp	1.8.7	GPL-2.0-or-later	iptables module xt-dccp
<b>iptables</b>	iptables-module-xt-devgroup	1.8.7	GPL-2.0-or-later	iptables module xt-devgroup

<b>iptables</b>	iptables-module-xt-dscp	1.8.7	GPL-2.0-or-later	iptables module xt-dscp
<b>iptables</b>	iptables-module-xt-ecn	1.8.7	GPL-2.0-or-later	iptables module xt-ecn
<b>iptables</b>	iptables-module-xt-esp	1.8.7	GPL-2.0-or-later	iptables module xt-esp
<b>iptables</b>	iptables-module-xt-hashlimit	1.8.7	GPL-2.0-or-later	iptables module xt-hashlimit
<b>iptables</b>	iptables-module-xt-helper	1.8.7	GPL-2.0-or-later	iptables module xt-helper
<b>iptables</b>	iptables-module-xt-hmark	1.8.7	GPL-2.0-or-later	iptables module xt-hmark
<b>iptables</b>	iptables-module-xt-idletimer	1.8.7	GPL-2.0-or-later	iptables module xt-idletimer
<b>iptables</b>	iptables-module-xt-ipcomp	1.8.7	GPL-2.0-or-later	iptables module xt-ipcomp
<b>iptables</b>	iptables-module-xt-iprange	1.8.7	GPL-2.0-or-later	iptables module xt-iprange
<b>iptables</b>	iptables-module-xt-ipvs	1.8.7	GPL-2.0-or-later	iptables module xt-ipvs
<b>iptables</b>	iptables-module-xt-led	1.8.7	GPL-2.0-or-later	iptables module xt-led

<b>iptables</b>	iptables-module-xt-length	1.8.7	GPL-2.0-or-later	iptables module xt-length
<b>iptables</b>	iptables-module-xt-limit	1.8.7	GPL-2.0-or-later	iptables module xt-limit
<b>iptables</b>	iptables-module-xt-mac	1.8.7	GPL-2.0-or-later	iptables module xt-mac
<b>iptables</b>	iptables-module-xt-mark	1.8.7	GPL-2.0-or-later	iptables module xt-mark
<b>iptables</b>	iptables-module-xt-multiport	1.8.7	GPL-2.0-or-later	iptables module xt-multiport
<b>iptables</b>	iptables-module-xt-nfacct	1.8.7	GPL-2.0-or-later	iptables module xt-nfacct
<b>iptables</b>	iptables-module-xt-nflog	1.8.7	GPL-2.0-or-later	iptables module xt-nflog
<b>iptables</b>	iptables-module-xt-nfqueue	1.8.7	GPL-2.0-or-later	iptables module xt-nfqueue
<b>iptables</b>	iptables-module-xt-osf	1.8.7	GPL-2.0-or-later	iptables module xt-osf
<b>iptables</b>	iptables-module-xt-owner	1.8.7	GPL-2.0-or-later	iptables module xt-owner
<b>iptables</b>	iptables-module-xt-physdev	1.8.7	GPL-2.0-or-later	iptables module xt-physdev

<b>iptables</b>	iptables-module-xt-pkttype	1.8.7	GPL-2.0-or-later	iptables module xt-pkttype
<b>iptables</b>	iptables-module-xt-policy	1.8.7	GPL-2.0-or-later	iptables module xt-policy
<b>iptables</b>	iptables-module-xt-quota	1.8.7	GPL-2.0-or-later	iptables module xt-quota
<b>iptables</b>	iptables-module-xt-rateest	1.8.7	GPL-2.0-or-later	iptables module xt-rateest
<b>iptables</b>	iptables-module-xt-recent	1.8.7	GPL-2.0-or-later	iptables module xt-recent
<b>iptables</b>	iptables-module-xt-rpfilter	1.8.7	GPL-2.0-or-later	iptables module xt-rpfilter
<b>iptables</b>	iptables-module-xt-sctp	1.8.7	GPL-2.0-or-later	iptables module xt-sctp
<b>iptables</b>	iptables-module-xt-secmark	1.8.7	GPL-2.0-or-later	iptables module xt-secmark
<b>iptables</b>	iptables-module-xt-set	1.8.7	GPL-2.0-or-later	iptables module xt-set
<b>iptables</b>	iptables-module-xt-socket	1.8.7	GPL-2.0-or-later	iptables module xt-socket
<b>iptables</b>	iptables-module-xt-standard	1.8.7	GPL-2.0-or-later	iptables module xt-standard

<b>iptables</b>	iptables-module-xt-statistic	1.8.7	GPL-2.0-or-later	iptables module xt-statistic
<b>iptables</b>	iptables-module-xt-string	1.8.7	GPL-2.0-or-later	iptables module xt-string
<b>iptables</b>	iptables-module-xt-synproxy	1.8.7	GPL-2.0-or-later	iptables module xt-synproxy
<b>iptables</b>	iptables-module-xt-tcp	1.8.7	GPL-2.0-or-later	iptables module xt-tcp
<b>iptables</b>	iptables-module-xt-tcpmss	1.8.7	GPL-2.0-or-later	iptables module xt-tcpmss
<b>iptables</b>	iptables-module-xt-tcpoptstrip	1.8.7	GPL-2.0-or-later	iptables module xt-tcpoptstrip
<b>iptables</b>	iptables-module-xt-tee	1.8.7	GPL-2.0-or-later	iptables module xt-tee
<b>iptables</b>	iptables-module-xt-time	1.8.7	GPL-2.0-or-later	iptables module xt-time
<b>iptables</b>	iptables-module-xt-tos	1.8.7	GPL-2.0-or-later	iptables module xt-tos
<b>iptables</b>	iptables-module-xt-tproxy	1.8.7	GPL-2.0-or-later	iptables module xt-tproxy
<b>iptables</b>	iptables-module-xt-trace	1.8.7	GPL-2.0-or-later	iptables module xt-trace

<b>iptables</b>	iptables-module-xt-u32	1.8.7	GPL-2.0-or-later	iptables module xt-u32
<b>iptables</b>	iptables-module-xt-udp	1.8.7	GPL-2.0-or-later	iptables module xt-udp
<b>iputils</b>	iputils-ping	20211215	BSD-3-Clause & GPL-2.0-or-later	Network monitoring tools
<b>iw</b>	iw	5.16	BSD-2-Clause	nl80211 based CLI configuration utility for wireless devices
<b>linux-stm32mp</b>	kernel-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	Linux STM32MP Kernel
<b>linux-stm32mp</b>	kernel-module-adv7180-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	adv7180 kernel module
<b>linux-stm32mp</b>	kernel-module-adv7604-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	adv7604 kernel module
<b>linux-stm32mp</b>	kernel-module-adxl34x-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	adxl34x kernel module
<b>linux-stm32mp</b>	kernel-module-adxl34x-i2c-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	adxl34x-i2c kernel module
<b>linux-stm32mp</b>	kernel-module-adxl34x-spi-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	adxl34x-spi kernel module
<b>linux-stm32mp</b>	kernel-module-aes-arm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	aes-arm kernel module

<b>linux-stm32mp</b>	kernel-module-aes-arm-bs-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	aes-arm-bs kernel module
<b>linux-stm32mp</b>	kernel-module-aes-arm-ce-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	aes-arm-ce kernel module
<b>linux-stm32mp</b>	kernel-module-aes-generic-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	aes-generic kernel module
<b>linux-stm32mp</b>	kernel-module-af-alg-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	af-alg kernel module
<b>linux-stm32mp</b>	kernel-module-ah6-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ah6 kernel module
<b>linux-stm32mp</b>	kernel-module-algif-aead-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	algif-aead kernel module
<b>linux-stm32mp</b>	kernel-module-algif-hash-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	algif-hash kernel module
<b>linux-stm32mp</b>	kernel-module-algif-rng-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	algif-rng kernel module
<b>linux-stm32mp</b>	kernel-module-algif-skcipher-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	algif-skcipher kernel module
<b>linux-stm32mp</b>	kernel-module-amlogic-gxl-crypto-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	amlogic-gxl-crypto kernel module
<b>linux-stm32mp</b>	kernel-module-analogix-dp-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	analogix-dp kernel module

<b>linux-stm32mp</b>	kernel-module- aspeed-pwm-tacho- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	aspeed-pwm-tacho kernel module
<b>linux-stm32mp</b>	kernel-module- aspeed-video- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	aspeed-video kernel module
<b>linux-stm32mp</b>	kernel-module- atmel-hlcdc-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	atmel-hlcdc kernel module
<b>linux-stm32mp</b>	kernel-module- atmel-hlcdc-dc- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	atmel-hlcdc-dc kernel module
<b>linux-stm32mp</b>	kernel-module- atmel-mxt-ts- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	atmel-mxt-ts kernel module
<b>linux-stm32mp</b>	kernel-module- axp20x-pek-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	axp20x-pek kernel module
<b>linux-stm32mp</b>	kernel-module- axp20x-usb-power- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	axp20x-usb-power kernel module
<b>linux-stm32mp</b>	kernel-module-b53- common-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	b53-common kernel module
<b>linux-stm32mp</b>	kernel-module-b53- mdio-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	b53-mdio kernel module

<b>linux-stm32mp</b>	kernel-module-b53- mmap-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	b53-mmap kernel module
<b>linux-stm32mp</b>	kernel-module-b53- serdes-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	b53-serdes kernel module
<b>linux-stm32mp</b>	kernel-module-b53- spi-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	b53-spi kernel module
<b>linux-stm32mp</b>	kernel-module-b53- srab-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	b53-srab kernel module
<b>linux-stm32mp</b>	kernel-module-bcm- sf2-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	bcm-sf2 kernel module
<b>linux-stm32mp</b>	kernel-module- bcm7xxx-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	bcm7xxx kernel module
<b>linux-stm32mp</b>	kernel-module- bcmsysport-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	bcmsysport kernel module
<b>linux-stm32mp</b>	kernel-module- bluetooth-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	bluetooth kernel module
<b>linux-stm32mp</b>	kernel-module- bq27xxx-battery- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	bq27xxx-battery kernel module
<b>linux-stm32mp</b>	kernel-module- bq27xxx-battery-i2c- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	bq27xxx-battery-i2c kernel module

<b>linux-stm32mp</b>	kernel-module- brcmfmac-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	brcmfmac kernel module
<b>linux-stm32mp</b>	kernel-module- brcmutil-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	brcmutil kernel module
<b>linux-stm32mp</b>	kernel-module- btbcm-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	btbcm kernel module
<b>linux-stm32mp</b>	kernel-module- btmrvl-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	btmrvl kernel module
<b>linux-stm32mp</b>	kernel-module- btmrvl-sdio-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	btmrvl-sdio kernel module
<b>linux-stm32mp</b>	kernel-module-ccm- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	ccm kernel module
<b>linux-stm32mp</b>	kernel-module-cdc- acm-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cdc-acm kernel module
<b>linux-stm32mp</b>	kernel-module-cfb- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cfb kernel module
<b>linux-stm32mp</b>	kernel-module- cfbcopyarea-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cfbcopyarea kernel module
<b>linux-stm32mp</b>	kernel-module- cfbfillrect-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cfbfillrect kernel module
<b>linux-stm32mp</b>	kernel-module- cfbimgblt-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cfbimgblt kernel module

<b>linux-stm32mp</b>	kernel-module- cfg80211-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cfg80211 kernel module
<b>linux-stm32mp</b>	kernel-module- chacha-neon- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	chacha-neon kernel module
<b>linux-stm32mp</b>	kernel-module-clk- rk808-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	clk-rk808 kernel module
<b>linux-stm32mp</b>	kernel-module-clk- s2mps11-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	clk-s2mps11 kernel module
<b>linux-stm32mp</b>	kernel-module- cm36651-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cm36651 kernel module
<b>linux-stm32mp</b>	kernel-module-cmac- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cmac kernel module
<b>linux-stm32mp</b>	kernel-module- counter-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	counter kernel module
<b>linux-stm32mp</b>	kernel-module- cpcap-adc-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cpcap-adc kernel module
<b>linux-stm32mp</b>	kernel-module- cpcap-battery- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cpcap-battery kernel module
<b>linux-stm32mp</b>	kernel-module- cpcap-pwrbutton- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cpcap-pwrbutton kernel module

<b>linux-stm32mp</b>	kernel-module- cpufreq- conservative- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cpufreq-conservative kernel module
<b>linux-stm32mp</b>	kernel-module- cpufreq-powersave- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cpufreq-powersave kernel module
<b>linux-stm32mp</b>	kernel-module- cpufreq-userspace- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cpufreq-userspace kernel module
<b>linux-stm32mp</b>	kernel-module-crc- ccitt-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	crc-ccitt kernel module
<b>linux-stm32mp</b>	kernel-module-crc- itu-t-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	crc-itu-t kernel module
<b>linux-stm32mp</b>	kernel-module- crc32-arm-ce- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	crc32-arm-ce kernel module
<b>linux-stm32mp</b>	kernel-module-crc4- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	crc4 kernel module
<b>linux-stm32mp</b>	kernel-module- cryptd-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cryptd kernel module

<b>linux-stm32mp</b>	kernel-module- crypto-engine- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	crypto-engine kernel module
<b>linux-stm32mp</b>	kernel-module- crypto-simd-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	crypto-simd kernel module
<b>linux-stm32mp</b>	kernel-module- crypto-user-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	crypto-user kernel module
<b>cryptodev- module</b>	kernel-module- cryptodev-5.15.118	1.12	GPL-2.0-only	cryptodev kernel module
<b>linux-stm32mp</b>	kernel-module-ctr- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	ctr kernel module
<b>linux-stm32mp</b>	kernel-module- cyapatp-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cyapatp kernel module
<b>linux-stm32mp</b>	kernel-module- da9063-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	da9063 kernel module
<b>linux-stm32mp</b>	kernel-module- da9063-onkey- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	da9063-onkey kernel module
<b>linux-stm32mp</b>	kernel-module- da9063-wdt-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	da9063-wdt kernel module
<b>linux-stm32mp</b>	kernel-module- dcmipp-bytecap- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	dcmipp-bytecap kernel module

<b>linux-stm32mp</b>	kernel-module-dcmipp-byteproc-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	dcmipp-byteproc kernel module
<b>linux-stm32mp</b>	kernel-module-dcmipp-parallel-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	dcmipp-parallel kernel module
<b>linux-stm32mp</b>	kernel-module-des-generic-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	des-generic kernel module
<b>linux-stm32mp</b>	kernel-module-drbg-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	drbg kernel module
<b>linux-stm32mp</b>	kernel-module-dsa-core-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	dsa-core kernel module
<b>linux-stm32mp</b>	kernel-module-dvb-core-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	dvb-core kernel module
<b>linux-stm32mp</b>	kernel-module-dw-hdmi-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	dw-hdmi kernel module
<b>linux-stm32mp</b>	kernel-module-dw-hdmi-imx-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	dw-hdmi-imx kernel module
<b>linux-stm32mp</b>	kernel-module-ecb-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ecb kernel module
<b>linux-stm32mp</b>	kernel-module-ecc-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ecc kernel module

<b>linux-stm32mp</b>	kernel-module-ecdh-generic-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ecdh-generic kernel module
<b>linux-stm32mp</b>	kernel-module-echainiv-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	echainiv kernel module
<b>linux-stm32mp</b>	kernel-module-elants-i2c-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	elants-i2c kernel module
<b>linux-stm32mp</b>	kernel-module-esp6-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	esp6 kernel module
<b>linux-stm32mp</b>	kernel-module-etnaviv-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	etnaviv kernel module
<b>linux-stm32mp</b>	kernel-module-extcon-max14577-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	extcon-max14577 kernel module
<b>linux-stm32mp</b>	kernel-module-extcon-max77693-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	extcon-max77693 kernel module
<b>linux-stm32mp</b>	kernel-module-extcon-max8997-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	extcon-max8997 kernel module
<b>linux-stm32mp</b>	kernel-module-exynosdrm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	exynosdrm kernel module
<b>linux-stm32mp</b>	kernel-module-ff-memless-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ff-memless kernel module

<b>linux-stm32mp</b>	kernel-module- flexcan-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	flexcan kernel module
<b>linux-stm32mp</b>	kernel-module-font- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	font kernel module
<b>linux-stm32mp</b>	kernel-module-fsi- core-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	fsi-core kernel module
<b>linux-stm32mp</b>	kernel-module-fsi- master-asppeed- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	fsi-master-asppeed kernel module
<b>linux-stm32mp</b>	kernel-module-fsi- master-gpio-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	fsi-master-gpio kernel module
<b>linux-stm32mp</b>	kernel-module-fsi- master-hub-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	fsi-master-hub kernel module
<b>linux-stm32mp</b>	kernel-module-fsi- occ-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	fsi-occ kernel module
<b>linux-stm32mp</b>	kernel-module-fsi- sbefifo-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	fsi-sbefifo kernel module
<b>linux-stm32mp</b>	kernel-module-fsi- scom-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	fsi-scom kernel module
<b>linux-stm32mp</b>	kernel-module-fsl- dcu-drm-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	fsl-dcu-drm kernel module
<b>linux-stm32mp</b>	kernel-module- ftgmac100-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	ftgmac100 kernel module

<b>linux-stm32mp</b>	kernel-module-g-ether-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	g-ether kernel module
<b>linux-stm32mp</b>	kernel-module-gc2145-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	gc2145 kernel module
<b>linux-stm32mp</b>	kernel-module-gcm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	gcm kernel module
<b>linux-stm32mp</b>	kernel-module-genet-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	genet kernel module
<b>linux-stm32mp</b>	kernel-module-gf128mul-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	gf128mul kernel module
<b>linux-stm32mp</b>	kernel-module-ghash-arm-ce-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ghash-arm-ce kernel module
<b>linux-stm32mp</b>	kernel-module-ghash-generic-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ghash-generic kernel module
<b>linux-stm32mp</b>	kernel-module-governor-passive-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	governor-passive kernel module
<b>linux-stm32mp</b>	kernel-module-gpio-charger-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	gpio-charger kernel module
<b>linux-stm32mp</b>	kernel-module-gpu-sched-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	gpu-sched kernel module

<b>linux-stm32mp</b>	kernel-module-hci-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	hci kernel module
<b>linux-stm32mp</b>	kernel-module-hci-uart-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	hci-uart kernel module
<b>linux-stm32mp</b>	kernel-module-hmac-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	hmac kernel module
<b>linux-stm32mp</b>	kernel-module-i2c-arb-gpio-challenge-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	i2c-arb-gpio-challenge kernel module
<b>linux-stm32mp</b>	kernel-module-imx-ipu-v3-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	imx-ipu-v3 kernel module
<b>linux-stm32mp</b>	kernel-module-imx-ldb-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	imx-ldb kernel module
<b>linux-stm32mp</b>	kernel-module-imx-tve-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	imx-tve kernel module
<b>linux-stm32mp</b>	kernel-module-imxdrm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	imxdrm kernel module
<b>linux-stm32mp</b>	kernel-module-ina2xx-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ina2xx kernel module
<b>linux-stm32mp</b>	kernel-module-industrialio-buffer-cb-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	industrialio-buffer-cb kernel module

<b>linux-stm32mp</b>	kernel-module- industrialio-hw- consumer-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	industrialio-hw-consumer kernel module
<b>linux-stm32mp</b>	kernel-module-ip6- tunnel-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	ip6-tunnel kernel module
<b>linux-stm32mp</b>	kernel-module- ipcomp6-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	ipcomp6 kernel module
<b>linux-stm32mp</b>	kernel-module- jitterentropy-rng- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	jitterentropy-rng kernel module
<b>linux-stm32mp</b>	kernel-module-led- class-flash-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	led-class-flash kernel module
<b>linux-stm32mp</b>	kernel-module-leds- cpcap-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	leds-cpcap kernel module
<b>linux-stm32mp</b>	kernel-module-leds- max77693-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	leds-max77693 kernel module
<b>linux-stm32mp</b>	kernel-module-leds- max8997-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	leds-max8997 kernel module
<b>linux-stm32mp</b>	kernel-module- ledtrig-audio-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	ledtrig-audio kernel module
<b>linux-stm32mp</b>	kernel-module- libaes-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	libaes kernel module

<b>linux-stm32mp</b>	kernel-module- libarc4-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	libarc4 kernel module
<b>linux-stm32mp</b>	kernel-module- libcomposite-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	libcomposite kernel module
<b>linux-stm32mp</b>	kernel-module- libdes-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	libdes kernel module
<b>linux-stm32mp</b>	kernel-module- libsha256-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	libsha256 kernel module
<b>linux-stm32mp</b>	kernel-module-lima- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	lima kernel module
<b>linux-stm32mp</b>	kernel-module-lrw- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	lrw kernel module
<b>linux-stm32mp</b>	kernel-module- mac80211-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	mac80211 kernel module
<b>linux-stm32mp</b>	kernel-module- max14577-charger- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max14577-charger kernel module
<b>linux-stm32mp</b>	kernel-module- max14577-regulator- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max14577-regulator kernel module
<b>linux-stm32mp</b>	kernel-module- max17040-battery- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max17040-battery kernel module

<b>linux-stm32mp</b>	kernel-module- max17042-battery- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max17042-battery kernel module
<b>linux-stm32mp</b>	kernel-module- max77693-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max77693 kernel module
<b>linux-stm32mp</b>	kernel-module- max77693-charger- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max77693-charger kernel module
<b>linux-stm32mp</b>	kernel-module- max77693-haptic- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max77693-haptic kernel module
<b>linux-stm32mp</b>	kernel-module- max77693-regulator- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max77693-regulator kernel module
<b>linux-stm32mp</b>	kernel-module- max8952-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max8952 kernel module
<b>linux-stm32mp</b>	kernel-module- max8997-charger- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max8997-charger kernel module
<b>linux-stm32mp</b>	kernel-module- max8997-haptic- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max8997-haptic kernel module

<b>linux-stm32mp</b>	kernel-module- max8997-regulator- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max8997-regulator kernel module
<b>linux-stm32mp</b>	kernel-module- max8998-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max8998 kernel module
<b>linux-stm32mp</b>	kernel-module- max8998-charger- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max8998-charger kernel module
<b>linux-stm32mp</b>	kernel-module-mc- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	mc kernel module
<b>linux-stm32mp</b>	kernel-module- mchp23k256-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	mchp23k256 kernel module
<b>linux-stm32mp</b>	kernel-module-md5- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	md5 kernel module
<b>linux-stm32mp</b>	kernel-module-mdio- bcm-unimac-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	mdio-bcm-unimac kernel module
<b>linux-stm32mp</b>	kernel-module-mip6- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	mip6 kernel module
<b>linux-stm32mp</b>	kernel-module- ml86v7667-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	ml86v7667 kernel module
<b>linux-stm32mp</b>	kernel-module- mms114-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	mms114 kernel module

<b>linux-stm32mp</b>	kernel-module- mwifiex-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	mwifiex kernel module
<b>linux-stm32mp</b>	kernel-module- mwifiex-sdio-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	mwifiex-sdio kernel module
<b>linux-stm32mp</b>	kernel-module-nci- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	nci kernel module
<b>linux-stm32mp</b>	kernel-module-nci- spi-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	nci-spi kernel module
<b>linux-stm32mp</b>	kernel-module-nci- uart-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	nci-uart kernel module
<b>linux-stm32mp</b>	kernel-module-nfc- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	nfc kernel module
<b>linux-stm32mp</b>	kernel-module-nfc- digital-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	nfc-digital kernel module
<b>linux-stm32mp</b>	kernel-module-ntc- thermistor-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	ntc-thermistor kernel module
<b>linux-stm32mp</b>	kernel-module- nvmem-rmem- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	nvmem-rmem kernel module
<b>linux-stm32mp</b>	kernel-module-nxp- ptn3460-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	nxp-ptn3460 kernel module
<b>linux-stm32mp</b>	kernel-module-ofb- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	ofb kernel module

<b>linux-stm32mp</b>	kernel-module- ov5640-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	ov5640 kernel module
<b>linux-stm32mp</b>	kernel-module- ov7670-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	ov7670 kernel module
<b>linux-stm32mp</b>	kernel-module-panel- samsung-ld9040- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	panel-samsung-ld9040 kernel module
<b>linux-stm32mp</b>	kernel-module-panel- samsung- s6e63j0x03-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	panel-samsung-s6e63j0x03 kernel module
<b>linux-stm32mp</b>	kernel-module-panel- samsung-s6e8aa0- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	panel-samsung-s6e8aa0 kernel module
<b>linux-stm32mp</b>	kernel-module- panfrost-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	panfrost kernel module
<b>linux-stm32mp</b>	kernel-module- parade-ps8622- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	parade-ps8622 kernel module
<b>linux-stm32mp</b>	kernel-module- parallel-display- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	parallel-display kernel module
<b>linux-stm32mp</b>	kernel-module-phy- am335x-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	phy-am335x kernel module

<b>linux-stm32mp</b>	kernel-module-phy-am335x-control-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	phy-am335x-control kernel module
<b>linux-stm32mp</b>	kernel-module-phy-cpcap-usb-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	phy-cpcap-usb kernel module
<b>linux-stm32mp</b>	kernel-module-phy-exynos-usb2-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	phy-exynos-usb2 kernel module
<b>linux-stm32mp</b>	kernel-module-pl111-drm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	pl111-drm kernel module
<b>linux-stm32mp</b>	kernel-module-pwm-atmel-hlcdc-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	pwm-atmel-hlcdc kernel module
<b>linux-stm32mp</b>	kernel-module-pwm-fan-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	pwm-fan kernel module
<b>linux-stm32mp</b>	kernel-module-pwm-fsl-ftm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	pwm-fsl-ftm kernel module
<b>linux-stm32mp</b>	kernel-module-pwm-stm32-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	pwm-stm32 kernel module
<b>linux-stm32mp</b>	kernel-module-pwm-stm32-lp-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	pwm-stm32-lp kernel module
<b>linux-stm32mp</b>	kernel-module-qt1070-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	qt1070 kernel module

<b>linux-stm32mp</b>	kernel-module- r8152-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	r8152 kernel module
<b>linux-stm32mp</b>	kernel-module- r8153-ecm-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	r8153-ecm kernel module
<b>linux-stm32mp</b>	kernel-module- r8a66597-hcd- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	r8a66597-hcd kernel module
<b>linux-stm32mp</b>	kernel-module- resistive-adc-touch- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	resistive-adc-touch kernel module
<b>linux-stm32mp</b>	kernel-module- rpmsg-client-sample- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rpmsg-client-sample kernel module
<b>linux-stm32mp</b>	kernel-module- rpmsg-tty-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rpmsg-tty kernel module
<b>linux-stm32mp</b>	kernel-module- rt2800lib-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rt2800lib kernel module
<b>linux-stm32mp</b>	kernel-module- rt2800usb-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rt2800usb kernel module
<b>linux-stm32mp</b>	kernel-module- rt2x00lib-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rt2x00lib kernel module
<b>linux-stm32mp</b>	kernel-module- rt2x00usb-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rt2x00usb kernel module

<b>linux-stm32mp</b>	kernel-module-rtc- bq32k-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rtc-bq32k kernel module
<b>linux-stm32mp</b>	kernel-module-rtc- cpcap-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rtc-cpcap kernel module
<b>linux-stm32mp</b>	kernel-module-rtc- da9063-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rtc-da9063 kernel module
<b>linux-stm32mp</b>	kernel-module-rtc- hym8563-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rtc-hym8563 kernel module
<b>linux-stm32mp</b>	kernel-module-rtc- max8997-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rtc-max8997 kernel module
<b>linux-stm32mp</b>	kernel-module-rtc- max8998-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rtc-max8998 kernel module
<b>linux-stm32mp</b>	kernel-module-rtc- pcf85363-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rtc-pcf85363 kernel module
<b>linux-stm32mp</b>	kernel-module-rtc- rk808-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rtc-rk808 kernel module
<b>linux-stm32mp</b>	kernel-module-rtc- rs5c372-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rtc-rs5c372 kernel module
<b>linux-stm32mp</b>	kernel-module-rtc- rx8581-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rtc-rx8581 kernel module
<b>linux-stm32mp</b>	kernel-module-rtc- s35390a-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rtc-s35390a kernel module

<b>linux-stm32mp</b>	kernel-module-rtc- s5m-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rtc-s5m kernel module
<b>linux-stm32mp</b>	kernel-module- s2mpa01-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	s2mpa01 kernel module
<b>linux-stm32mp</b>	kernel-module- s3fwrn5-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	s3fwrn5 kernel module
<b>linux-stm32mp</b>	kernel-module- s3fwrn5-i2c-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	s3fwrn5-i2c kernel module
<b>linux-stm32mp</b>	kernel-module- samsung-keypad- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	samsung-keypad kernel module
<b>linux-stm32mp</b>	kernel-module-seqiv- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	seqiv kernel module
<b>linux-stm32mp</b>	kernel-module-sha1- arm-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	sha1-arm kernel module
<b>linux-stm32mp</b>	kernel-module-sha1- arm-ce-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	sha1-arm-ce kernel module
<b>linux-stm32mp</b>	kernel-module-sha1- arm-neon-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	sha1-arm-neon kernel module
<b>linux-stm32mp</b>	kernel-module-sha2- arm-ce-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	sha2-arm-ce kernel module
<b>linux-stm32mp</b>	kernel-module- sha256-arm-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	sha256-arm kernel module

<b>linux-stm32mp</b>	kernel-module- sha256-generic- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	sha256-generic kernel module
<b>linux-stm32mp</b>	kernel-module- sha512-arm-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	sha512-arm kernel module
<b>linux-stm32mp</b>	kernel-module- sha512-generic- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	sha512-generic kernel module
<b>linux-stm32mp</b>	kernel-module- sii9234-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	sii9234 kernel module
<b>linux-stm32mp</b>	kernel-module- simple-bridge- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	simple-bridge kernel module
<b>linux-stm32mp</b>	kernel-module-snd- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	snd kernel module
<b>linux-stm32mp</b>	kernel-module-snd- hwdep-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	snd-hwdep kernel module
<b>linux-stm32mp</b>	kernel-module-snd- pcm-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	snd-pcm kernel module
<b>linux-stm32mp</b>	kernel-module-snd- pcm-dmaengine- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	snd-pcm-dmaengine kernel module

<b>linux-stm32mp</b>	kernel-module-snd-rawmidi-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-rawmidi kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-ak4642-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-ak4642 kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-audio-graph-card-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-audio-graph-card kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-core-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-core kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-cpcap-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-cpcap kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-cs42l51-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-cs42l51 kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-cs42l51-i2c-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-cs42l51-i2c kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-dmic-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-dmic kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-fsl-sai-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-fsl-sai kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-hdmi-codec-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-hdmi-codec kernel module

<b>linux-stm32mp</b>	kernel-module-snd-soc-rl6231-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-rl6231 kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-rt5631-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-rt5631 kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-rt5640-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-rt5640 kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-sgtl5000-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-sgtl5000 kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-simple-card-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-simple-card kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-simple-card-utils-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-simple-card-utils kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-spdif-rx-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-spdif-rx kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-spdif-tx-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-spdif-tx kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-sti-sas-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-sti-sas kernel module

<b>linux-stm32mp</b>	kernel-module-snd-soc-stm32-i2s-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-stm32-i2s kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-stm32-sai-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-stm32-sai kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-stm32-sai-sub-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-stm32-sai-sub kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-stm32-spdifrx-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-stm32-spdifrx kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-tlv320aic23-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-tlv320aic23 kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-tlv320aic23-i2c-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-tlv320aic23-i2c kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-ts3a227e-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-ts3a227e kernel module

<b>linux-stm32mp</b>	kernel-module-snd-soc-wm-hubs-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-wm-hubs kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-wm8753-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-wm8753 kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-wm8903-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-wm8903 kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-wm8904-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-wm8904 kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-wm8978-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-wm8978 kernel module
<b>linux-stm32mp</b>	kernel-module-snd-soc-wm8994-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-wm8994 kernel module
<b>linux-stm32mp</b>	kernel-module-snd-timer-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-timer kernel module
<b>linux-stm32mp</b>	kernel-module-snd-usb-audio-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-usb-audio kernel module

<b>linux-stm32mp</b>	kernel-module-snd-usbmidi-lib-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-usbmidi-lib kernel module
<b>linux-stm32mp</b>	kernel-module-soundcore-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	soundcore kernel module
<b>linux-stm32mp</b>	kernel-module-spi-gpio-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	spi-gpio kernel module
<b>linux-stm32mp</b>	kernel-module-spi-rockchip-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	spi-rockchip kernel module
<b>linux-stm32mp</b>	kernel-module-spi-stm32-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	spi-stm32 kernel module
<b>linux-stm32mp</b>	kernel-module-st-lsm6dsx-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	st-lsm6dsx kernel module
<b>linux-stm32mp</b>	kernel-module-st-lsm6dsx-i2c-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	st-lsm6dsx-i2c kernel module
<b>linux-stm32mp</b>	kernel-module-st-lsm6dsx-spi-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	st-lsm6dsx-spi kernel module
<b>linux-stm32mp</b>	kernel-module-st-mipid02-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	st-mipid02 kernel module
<b>linux-stm32mp</b>	kernel-module-st-pressure-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	st-pressure kernel module
<b>linux-stm32mp</b>	kernel-module-st-pressure-i2c-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	st-pressure-i2c kernel module

<b>linux-stm32mp</b>	kernel-module-st- pressure-spi-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	st-pressure-spi kernel module
<b>linux-stm32mp</b>	kernel-module-st- sensors-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	st-sensors kernel module
<b>linux-stm32mp</b>	kernel-module-st- sensors-i2c-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	st-sensors-i2c kernel module
<b>linux-stm32mp</b>	kernel-module-st- sensors-spi-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	st-sensors-spi kernel module
<b>linux-stm32mp</b>	kernel-module- st1232-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	st1232 kernel module
<b>linux-stm32mp</b>	kernel-module-sti- drm-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	sti-drm kernel module
<b>linux-stm32mp</b>	kernel-module- stm32-adc-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-adc kernel module
<b>linux-stm32mp</b>	kernel-module- stm32-adc-core- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-adc-core kernel module
<b>linux-stm32mp</b>	kernel-module- stm32-adsdm- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-adsdm kernel module
<b>linux-stm32mp</b>	kernel-module- stm32-booster- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-booster kernel module

<b>linux-stm32mp</b>	kernel-module- stm32-cec-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-cec kernel module
<b>linux-stm32mp</b>	kernel-module- stm32-crc32- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-crc32 kernel module
<b>linux-stm32mp</b>	kernel-module- stm32-cryp-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-cryp kernel module
<b>linux-stm32mp</b>	kernel-module- stm32-dac-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-dac kernel module
<b>linux-stm32mp</b>	kernel-module- stm32-dac-core- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-dac-core kernel module
<b>linux-stm32mp</b>	kernel-module- stm32-dcmi-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-dcmi kernel module
<b>linux-stm32mp</b>	kernel-module- stm32-dcmipp- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-dcmipp kernel module
<b>linux-stm32mp</b>	kernel-module- stm32-ddr-pmu- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-ddr-pmu kernel module
<b>linux-stm32mp</b>	kernel-module- stm32-dfsdm-adc- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-dfsdm-adc kernel module

<b>linux-stm32mp</b>	kernel-module- stm32-dfsdm-core- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-dfsdm-core kernel module
<b>linux-stm32mp</b>	kernel-module- stm32-hash-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-hash kernel module
<b>linux-stm32mp</b>	kernel-module- stm32-lptimer- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-lptimer kernel module
<b>linux-stm32mp</b>	kernel-module- stm32-lptimer-cnt- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-lptimer-cnt kernel module
<b>linux-stm32mp</b>	kernel-module- stm32-lptimer- trigger-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-lptimer-trigger kernel module
<b>linux-stm32mp</b>	kernel-module- stm32-timer-cnt- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-timer-cnt kernel module
<b>linux-stm32mp</b>	kernel-module- stm32-timer-trigger- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-timer-trigger kernel module
<b>linux-stm32mp</b>	kernel-module- stm32-timers- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-timers kernel module

<b>linux-stm32mp</b>	kernel-module- stmpe-adc-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stmpe-adc kernel module
<b>linux-stm32mp</b>	kernel-module- stusb160x-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stusb160x kernel module
<b>linux-stm32mp</b>	kernel-module-tag- brcm-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	tag-brcm kernel module
<b>linux-stm32mp</b>	kernel-module- tc358764-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	tc358764 kernel module
<b>linux-stm32mp</b>	kernel-module- thermal-generic-adc- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	thermal-generic-adc kernel module
<b>linux-stm32mp</b>	kernel-module-tpm- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	tpm kernel module
<b>linux-stm32mp</b>	kernel-module-tpm- i2c-infineon-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	tpm-i2c-infineon kernel module
<b>linux-stm32mp</b>	kernel-module- tunnel6-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	tunnel6 kernel module
<b>linux-stm32mp</b>	kernel-module- typec-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	typec kernel module
<b>linux-stm32mp</b>	kernel-module- typec-ucsi-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	typec-ucsi kernel module
<b>linux-stm32mp</b>	kernel-module-u- audio-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	u-audio kernel module

<b>linux-stm32mp</b>	kernel-module-u-ether-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	u-ether kernel module
<b>linux-stm32mp</b>	kernel-module-u-serial-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	u-serial kernel module
<b>linux-stm32mp</b>	kernel-module-uas-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	uas kernel module
<b>linux-stm32mp</b>	kernel-module-ucsi-stm32g0-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ucsi-stm32g0 kernel module
<b>linux-stm32mp</b>	kernel-module-uinput-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	uinput kernel module
<b>linux-stm32mp</b>	kernel-module-usb-f-acm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	usb-f-acm kernel module
<b>linux-stm32mp</b>	kernel-module-usb-f-ecm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	usb-f-ecm kernel module
<b>linux-stm32mp</b>	kernel-module-usb-f-ecm-subset-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	usb-f-ecm-subset kernel module
<b>linux-stm32mp</b>	kernel-module-usb-f-eem-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	usb-f-eem kernel module
<b>linux-stm32mp</b>	kernel-module-usb-f-fs-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	usb-f-fs kernel module
<b>linux-stm32mp</b>	kernel-module-usb-f-hid-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	usb-f-hid kernel module

<b>linux-stm32mp</b>	kernel-module-usb- f-mass-storage- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usb-f-mass-storage kernel module
<b>linux-stm32mp</b>	kernel-module-usb- f-midi-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usb-f-midi kernel module
<b>linux-stm32mp</b>	kernel-module-usb- f-ncm-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usb-f-ncm kernel module
<b>linux-stm32mp</b>	kernel-module-usb- f-obex-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usb-f-obex kernel module
<b>linux-stm32mp</b>	kernel-module-usb- f-printer-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usb-f-printer kernel module
<b>linux-stm32mp</b>	kernel-module-usb- f-serial-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usb-f-serial kernel module
<b>linux-stm32mp</b>	kernel-module-usb- f-ss-lb-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usb-f-ss-lb kernel module
<b>linux-stm32mp</b>	kernel-module-usb- f-uac1-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usb-f-uac1 kernel module
<b>linux-stm32mp</b>	kernel-module-usb- f-uac1-legacy- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usb-f-uac1-legacy kernel module
<b>linux-stm32mp</b>	kernel-module-usb- f-uac2-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usb-f-uac2 kernel module

<b>linux-stm32mp</b>	kernel-module-usb-f- uvc-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usb-f- uvc kernel module
<b>linux-stm32mp</b>	kernel-module-usbip- core-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usbip-core kernel module
<b>linux-stm32mp</b>	kernel-module-usbip- host-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usbip-host kernel module
<b>linux-stm32mp</b>	kernel-module- uvcvideo-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	uvcvideo kernel module
<b>linux-stm32mp</b>	kernel-module-v4l2- async-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	v4l2- async kernel module
<b>linux-stm32mp</b>	kernel-module-v4l2- dv-timings-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	v4l2-dv- timings kernel module
<b>linux-stm32mp</b>	kernel-module-v4l2- fwnode-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	v4l2-fwnode kernel module
<b>linux-stm32mp</b>	kernel-module-v4l2- tpg-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	v4l2-tpg kernel module
<b>linux-stm32mp</b>	kernel-module- vf610-adc-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	vf610-adc kernel module
<b>linux-stm32mp</b>	kernel-module- videobuf2-common- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	videobuf2-common kernel module

<b>linux-stm32mp</b>	kernel-module- videobuf2-dma- contig-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	videobuf2-dma-contig kernel module
<b>linux-stm32mp</b>	kernel-module- videobuf2-dma-sg- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	videobuf2-dma-sg kernel module
<b>linux-stm32mp</b>	kernel-module- videobuf2-memops- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	videobuf2-memops kernel module
<b>linux-stm32mp</b>	kernel-module- videobuf2-v4l2- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	videobuf2-v4l2 kernel module
<b>linux-stm32mp</b>	kernel-module- videobuf2-vmalloc- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	videobuf2-vmalloc kernel module
<b>linux-stm32mp</b>	kernel-module- videodev-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	videodev kernel module
<b>linux-stm32mp</b>	kernel-module-vivid- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	vivid kernel module
<b>linux-stm32mp</b>	kernel-module- wm8994-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	wm8994 kernel module
<b>linux-stm32mp</b>	kernel-module-xfrm- algo-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	xfrm-algo kernel module

<b>linux-stm32mp</b>	kernel-module-xfrm- ipcomp-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	xfrm-ipcomp kernel module
<b>linux-stm32mp</b>	kernel-module- xfrm6-tunnel- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	xfrm6-tunnel kernel module
<b>linux-stm32mp</b>	kernel-module-xts- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	xts kernel module
<b>linux-stm32mp</b>	kernel-modules	5.15.118-stm32mp- r2.1	GPL-2.0-only	Linux STM32MP Kernel
<b>keyutils</b>	keyutils	1.6.1	LGPL-2.1-or-later & GPL-2.0-or-later	Linux Key Management Utilities
<b>kmod</b>	kmod	29	GPL-2.0-or-later & LGPL-2.1-or-later	Tools for managing Linux kernel modules
<b>glibc</b>	ldconfig	2.35	GPL-2.0-only & LGPL-2.1-only	GLIBC (GNU C Library)
<b>gcc-sanitizers</b>	libasan6	11.3.0	NCSA   MIT	GNU cc and gcc C compilers
<b>attr</b>	libattr1	2.5.1	LGPL-2.1-or-later	Utilities for manipulating filesystem extended attributes
<b>util-linux</b>	libblkid1	2.37.4	LGPL-2.1-or-later	util-linux libblkid
<b>bzip2</b>	libbz2-1	1.0.8	bzip2-1.0.6	Very high-quality data compression program
<b>glibc</b>	libc6	2.35	GPL-2.0-only & LGPL-2.1-only	GLIBC (GNU C Library)

<b>libcap</b>	libcap	2.66	BSD-3-Clause   GPL-2.0-only	Library for getting/setting POSIX.1e capabilities
<b>e2fsprogs</b>	libcom-err2	1.46.5	GPL-2.0-only & LGPL-2.0-only & BSD-3-Clause & MIT	Ext2 Filesystem Utilities
<b>libxcrypt</b>	libcrypt2	4.4.30	LGPL-2.1-only	Extended cryptographic library (from glibc)
<b>openssl</b>	libcrypto3	3.0.16	Apache-2.0	Secure Socket Layer
<b>curl</b>	libcurl4	7.82.0	curl	Command line tool and library for client-side URL transfers
<b>dbus</b>	libdbus-1-3	1.14.6	AFL-2.1   GPL-2.0-or-later	D-Bus message bus
<b>e2fsprogs</b>	libe2p2	1.46.5	GPL-2.0-only & LGPL-2.0-only & BSD-3-Clause & MIT	Ext2 Filesystem Utilities
<b>expat</b>	libexpat1	2.5.0	MIT	A stream-oriented XML parser library
<b>e2fsprogs</b>	libext2fs2	1.46.5	GPL-2.0-only & LGPL-2.0-only & BSD-3-Clause & MIT	Ext2 Filesystem Utilities
<b>util-linux</b>	libfdisk1	2.37.4	LGPL-2.1-or-later	util-linux libfdisk
<b>libffi</b>	libffi8	3.4.4	MIT	A portable foreign function interface library

<b>libgcc</b>	libgcc1	11.3.0	GPL-3.0-with-GCC-exception	GNU cc and gcc C compilers
<b>glib-2.0</b>	libglib-2.0-0	2.72.3	LGPL-2.1-or-later & BSD-3-Clause & PD	A general-purpose utility library
<b>gmp</b>	libgmp10	6.2.1	GPL-2.0-or-later   LGPL-3.0-or-later	GNU multiprecision arithmetic library
<b>gnutls</b>	libgnutls30	3.7.4	LGPL-2.1-or-later	GNU Transport Layer Security Library
<b>libgpod</b>	libgpod-tools	1.6.3	LGPL-2.1-or-later	C library and tools for interacting with the linux GPIO character device
<b>libgpod</b>	libgpod2	1.6.3	LGPL-2.1-or-later	C library and tools for interacting with the linux GPIO character device
<b>libidn2</b>	libidn2-0	2.3.2	(GPL-2.0-or-later   LGPL-3.0-only) & Unicode-DFS-2016	Internationalized Domain Name support library
<b>jansson</b>	libjansson4	2.13.1	MIT	Jansson is a C library for encoding, decoding and manipulating JSON data
<b>libjpeg-turbo</b>	libjpeg62	2.1.5.1	BSD-3-Clause	Hardware accelerated JPEG compression/decompression library

<b>json-glib</b>	libjson-glib-1.0-0	1.6.6	LGPL-2.1-only	JSON-GLib implements a full JSON parser using GLib and GObject
<b>kmod</b>	libkmod2	29	LGPL-2.1-or-later	Tools for managing Linux kernel modules
<b>xz</b>	liblzma5	5.2.6	PD	Utilities for managing LZMA compressed files
<b>lzo</b>	liblzo2-2	2.10	GPL-2.0-or-later	Lossless data compression library
<b>libmnl</b>	libmnl0	1.0.4	LGPL-2.1-or-later	Minimalistic user-space Netlink utility library
<b>util-linux</b>	libmount1	2.37.4	LGPL-2.1-or-later	util-linux libmount
<b>libnftnl</b>	libnftnl11	1.2.1	GPL-2.0-only	Library for low-level interaction with nftables Netlink's API over libmnl
<b>libnl</b>	libnl-3-200	3.5.0	LGPL-2.1-only	A library for applications dealing with netlink sockets
<b>libnl</b>	libnl-genl-3-200	3.5.0	LGPL-2.1-only	A library for applications dealing with netlink sockets
<b>libnl</b>	libnl-route-3-200	3.5.0	LGPL-2.1-only	A library for applications dealing with netlink sockets
<b>libpam</b>	libpam	1.5.2	GPL-2.0-or-later   BSD-3-Clause	Linux-PAM (Pluggable Authentication Modules)
<b>libpam</b>	libpam-runtime	1.5.2	GPL-2.0-or-later   BSD-3-Clause	Linux-PAM (Pluggable Authentication Modules)
<b>libpcre</b>	libpcre1	8.45	BSD-3-Clause	Perl Compatible Regular Expressions

<b>libpng</b>	libpng16-16	1.6.39	Libpng	PNG image format decoding library
<b>python3</b>	libpython3.10-1.0	3.10.9	PSF-2.0	The Python Programming Language
<b>readline</b>	libreadline8	8.1.2	GPL-3.0-or-later	Library for editing typed command lines
<b>e2fsprogs</b>	libss2	1.46.5	GPL-2.0-only & LGPL-2.0-only & BSD-3-Clause & MIT	Ext2 Filesystem Utilities
<b>openssl</b>	libssl3	3.0.16	Apache-2.0	Secure Socket Layer
<b>gcc-runtime</b>	libstdc++6	11.3.0	GPL-3.0-with-GCC-exception	GNU standard C++ library
<b>ncurses</b>	libtinfo5	6.3+20220423	MIT	ncurses tinfo library
<b>libtirpc</b>	libtirpc3	1.3.2	BSD-3-Clause	Transport-Independent RPC library
<b>libubootenv</b>	libubootenv-bin	0.3.2	LGPL-2.1-only	U-Boot libraries and tools to access environment
<b>libubootenv</b>	libubootenv0	0.3.2	LGPL-2.1-only	U-Boot libraries and tools to access environment
<b>gcc-sanitizers</b>	libubsan1	11.3.0	NCSA   MIT	GNU cc and gcc C compilers
<b>eudev</b>	libudev1	3.2.10	LGPL-2.1-or-later	eudev is a fork of systemd's udev
<b>libunistring</b>	libunistring2	1.0	LGPL-3.0-or-later   GPL-2.0-or-later	Library for manipulating C and Unicode strings
<b>libusb1</b>	libusb-1.0-0	1.0.26	LGPL-2.1-or-later	Userspace library to access USB (version 1.0)

<b>util-linux-libuuid</b>	libuuid1	2.37.4	BSD-3-Clause	A suite of basic system administration utilities
<b>libxml2</b>	libxml2	2.9.14	MIT	XML C Parser Library and Toolkit
<b>libyaml</b>	libyaml-0-2	0.2.5	MIT	LibYAML is a YAML 1.1 parser and emitter written in C.
<b>zlib</b>	libz1	1.2.11	Zlib	Zlib Compression Library
<b>zstd</b>	libzstd1	1.5.2	BSD-3-Clause & GPL-2.0-only	Zstandard – Fast real-time compression algorithm
<b>lighttpd</b>	lighttpd	1.4.67	BSD-3-Clause	Lightweight high-performance web server
<b>lighttpd</b>	lighttpd-module-access	1.4.67	BSD-3-Clause	Lighttpd module for access
<b>lighttpd</b>	lighttpd-module-accesslog	1.4.67	BSD-3-Clause	Lighttpd module for accesslog
<b>lighttpd</b>	lighttpd-module-alias	1.4.67	BSD-3-Clause	Lighttpd module for alias
<b>lighttpd</b>	lighttpd-module-auth	1.4.67	BSD-3-Clause	Lighttpd module for auth
<b>lighttpd</b>	lighttpd-module-authn-file	1.4.67	BSD-3-Clause	Lighttpd module for authn-file
<b>lighttpd</b>	lighttpd-module-cgi	1.4.67	BSD-3-Clause	Lighttpd module for cgi
<b>lighttpd</b>	lighttpd-module-dirlisting	1.4.67	BSD-3-Clause	Lighttpd module for dirlisting
<b>lighttpd</b>	lighttpd-module-fastcgi	1.4.67	BSD-3-Clause	Lighttpd module for fastcgi

<b>lighttpd</b>	lighttpd-module-indexfile	1.4.67	BSD-3-Clause	Lighttpd module for indexfile
<b>lighttpd</b>	lighttpd-module-openssl	1.4.67	BSD-3-Clause	Lighttpd module for openssl
<b>lighttpd</b>	lighttpd-module-staticfile	1.4.67	BSD-3-Clause	Lighttpd module for staticfile
<b>lz4</b>	lz4	1.9.4	BSD-2-Clause   GPL-2.0-only	Extremely Fast Compression algorithm
<b>mbedtls</b>	mbedtls	2.28.2	Apache-2.0	Lightweight crypto and SSL/TLS library
<b>modutils-initscripts</b>	modutils-initscripts	1.0	MIT	Initscript for auto-loading kernel modules on boot
<b>ncurses</b>	ncurses-terminfo-base	6.3+20220423	MIT	The New Curses library
<b>netbase</b>	netbase	6.3	GPL-2.0-only	Basic TCP/IP networking support
<b>nettle</b>	nettle	3.7.3	LGPL-3.0-or-later   GPL-2.0-or-later	A low level cryptographic library
<b>nftables</b>	nftables	1.0.2	GPL-2.0-only	Netfilter Tables userspace utilities
<b>ntp</b>	ntpdate	4.2.8p15	NTP	Network Time Protocol daemon and utilities
<b>openssl</b>	openssl	3.0.16	Apache-2.0	Secure Socket Layer
<b>openssl</b>	openssl-bin	3.0.16	Apache-2.0	Secure Socket Layer
<b>openssl</b>	openssl-conf	3.0.16	Apache-2.0	Secure Socket Layer

<b>openssl</b>	openssl-engines	3.0.16	Apache-2.0	Secure Socket Layer
<b>openssl</b>	openssl-ossf-module-legacy	3.0.16	Apache-2.0	Secure Socket Layer
<b>optee-client</b>	optee-client	3.16.0+gitAUTOINC+06db73b3f3	BSD-2-Clause	OPTEE Client
<b>optee-stm32mp-addons</b>	optee-stm32mp-addons	3.16.0.AUTOINC+3c3cb0ed91	BSD-3-Clause	OP-TEE STM32MP examples
<b>optee-test</b>	optee-test	3.16.0+gitAUTOINC+1cf0e6d2bd	BSD-2-Clause & GPL-2.0-only	OP-TEE sanity testsuite
<b>libpam</b>	pam-plugin-access	1.5.2	GPL-2.0-or-later   BSD-3-Clause	PAM plugin for -access
<b>libpam</b>	pam-plugin-deny	1.5.2	GPL-2.0-or-later   BSD-3-Clause	PAM plugin for -deny
<b>libpam</b>	pam-plugin-env	1.5.2	GPL-2.0-or-later   BSD-3-Clause	PAM plugin for -env
<b>libpam</b>	pam-plugin-faildelay	1.5.2	GPL-2.0-or-later   BSD-3-Clause	PAM plugin for -faildelay
<b>libpam</b>	pam-plugin-group	1.5.2	GPL-2.0-or-later   BSD-3-Clause	PAM plugin for -group
<b>libpam</b>	pam-plugin-lastlog	1.5.2	GPL-2.0-or-later   BSD-3-Clause	PAM plugin for -lastlog

<b>libpam</b>	pam-plugin-limits	1.5.2	GPL-2.0-or-later   BSD-3-Clause	PAM plugin for -limits
<b>libpam</b>	pam-plugin-loginuid	1.5.2	GPL-2.0-or-later   BSD-3-Clause	PAM plugin for -loginuid
<b>libpam</b>	pam-plugin-mail	1.5.2	GPL-2.0-or-later   BSD-3-Clause	PAM plugin for -mail
<b>libpam</b>	pam-plugin-motd	1.5.2	GPL-2.0-or-later   BSD-3-Clause	PAM plugin for -motd
<b>libpam</b>	pam-plugin-nologin	1.5.2	GPL-2.0-or-later   BSD-3-Clause	PAM plugin for -nologin
<b>libpam</b>	pam-plugin-permit	1.5.2	GPL-2.0-or-later   BSD-3-Clause	PAM plugin for -permit
<b>libpam</b>	pam-plugin-rootok	1.5.2	GPL-2.0-or-later   BSD-3-Clause	PAM plugin for -rootok
<b>libpam</b>	pam-plugin-securetty	1.5.2	GPL-2.0-or-later   BSD-3-Clause	PAM plugin for -securetty
<b>libpam</b>	pam-plugin-shells	1.5.2	GPL-2.0-or-later   BSD-3-Clause	PAM plugin for -shells
<b>libpam</b>	pam-plugin-unix	1.5.2	GPL-2.0-or-later   BSD-3-Clause	PAM plugin for -unix
<b>libpam</b>	pam-plugin-warn	1.5.2	GPL-2.0-or-later   BSD-3-Clause	PAM plugin for -warn
<b>python3</b>	python3-audio	3.10.9	PSF-2.0	Python Audio Handling

<b>python3</b>	python3-codecs	3.10.9	PSF-2.0	Python codec
<b>python3</b>	python3-core	3.10.9	PSF-2.0	Python interpreter and core modules
<b>python3</b>	python3-crypt	3.10.9	PSF-2.0	Python basic cryptographic and hashing support
<b>python3</b>	python3-ctypes	3.10.9	PSF-2.0	Python C types support
<b>python3</b>	python3-datetime	3.10.9	PSF-2.0	Python calendar and time support
<b>python3-dateutil</b>	python3-dateutil	2.8.2	BSD-3-Clause & Apache-2.0	Extensions to the standard Python datetime module
<b>python3</b>	python3-email	3.10.9	PSF-2.0	Python email support
<b>python3</b>	python3-fcntl	3.10.9	PSF-2.0	Python's fcntl interface
<b>python3</b>	python3-html	3.10.9	PSF-2.0	Python HTML processing support
<b>python3</b>	python3-io	3.10.9	PSF-2.0	Python low-level I/O
<b>python3</b>	python3-json	3.10.9	PSF-2.0	Python JSON support
<b>python3</b>	python3-logging	3.10.9	PSF-2.0	Python logging support
<b>python3</b>	python3-math	3.10.9	PSF-2.0	Python math support
<b>python3</b>	python3-mime	3.10.9	PSF-2.0	Python MIME handling APIs
<b>python3</b>	python3-misc	3.10.9	PSF-2.0	The Python Programming Language
<b>python3</b>	python3-netclient	3.10.9	PSF-2.0	Python Internet Protocol clients
<b>python3</b>	python3-netserver	3.10.9	PSF-2.0	Python Internet Protocol servers
<b>python3</b>	python3-numbers	3.10.9	PSF-2.0	Python number APIs
<b>python3</b>	python3-pickle	3.10.9	PSF-2.0	Python serialisation/persistence support
<b>python3</b>	python3-pydoc	3.10.9	PSF-2.0	Python interactive help support

<b>python3-pyobject</b>	python3-pyobject	3.42.0	LGPL-2.1-only	Python GObject bindings
<b>python3-pyyaml</b>	python3-pyyaml	6.0	MIT	Python support for YAML
<b>python3</b>	python3-shell	3.10.9	PSF-2.0	Python shell-like functionality
<b>python3-six</b>	python3-six	1.16.0	MIT	Python 2 and 3 compatibility library
<b>python3</b>	python3-stringold	3.10.9	PSF-2.0	Python string APIs [deprecated]
<b>python3</b>	python3-threading	3.10.9	PSF-2.0	Python threading & synchronization support
<b>python3</b>	python3-xml	3.10.9	PSF-2.0	Python basic XML support
<b>rauc</b>	rauc	1.7	LGPL-2.1-or-later	rauc version 1.7-r0
<b>rauc</b>	rauc-mark-good	1.7	LGPL-2.1-or-later	rauc version 1.7-r0
<b>rauc</b>	rauc-service	1.7	LGPL-2.1-or-later	rauc version 1.7-r0
<b>rpcbind</b>	rpcbind	1.2.6	BSD-3-Clause	Universal Addresses to RPC Program Number Mapper
<b>run-postinsts</b>	run-postinsts	1.0	MIT	Runs postinstall scripts on first boot of the target device
<b>shadow</b>	shadow	4.11.1	BSD-3-Clause	Tools to change and administer password and group data
<b>shadow</b>	shadow-base	4.11.1	BSD-3-Clause	Tools to change and administer password and group data
<b>shadow-securetty</b>	shadow-securetty	4.6	MIT	Provider of the machine specific securetty file

<b>shared-mime-info</b>	shared-mime-info	2.1	GPL-2.0-only	Shared MIME type database and specification
<b>squashfs-tools</b>	squashfs-tools	4.5	GPL-2.0-only	Tools for manipulating SquashFS filesystems
<b>strace</b>	strace	5.16	LGPL-2.1-or-later & GPL-2.0-or-later	System call tracing tool
<b>sysvinit</b>	sysvinit	3.01	GPL-2.0-or-later	System-V like init
<b>sysvinit-inittab</b>	sysvinit-inittab	2.88dsf	GPL-2.0-only	Inittab configuration for SysVinit
<b>sysvinit</b>	sysvinit-pidof	3.01	GPL-2.0-or-later	System-V like init
<b>u-boot-fw-config-stm32mp</b>	u-boot-fw-config-stm32mp	2021.10	MIT	U-Boot bootloader fw_printenv/setenv utilities
<b>udev-extraconf</b>	udev-extraconf	1.1	MIT	Extra machine specific configuration files
<b>opkg-utils</b>	update-alternatives-opkg	0.5.0	GPL-2.0-or-later	Utility for managing the alternatives system
<b>update-rc.d</b>	update-rc.d	0.8	GPL-2.0-or-later	manage symlinks in /etc/rcN.d
<b>usbutils</b>	usbutils	014	GPL-2.0-or-later	Host side USB console utilities
<b>util-linux</b>	util-linux-blkid	2.37.4	GPL-2.0-or-later & LGPL-2.1-or-later & BSD-3-Clause & BSD-4-Clause	util-linux blkid

<b>util-linux</b>	util-linux-sulogin	2.37.4	GPL-2.0-or-later & LGPL-2.1-or-later & BSD-3-Clause & BSD-4-Clause	util-linux sulogin
<b>watchdog</b>	watchdog	5.16	GPL-2.0-or-later	Software watchdog
<b>watchdog-config</b>	watchdog-config	1.0	MIT	Software watchdog
<b>wireless-regdb</b>	wireless-regdb-static	2023.02.13	ISC	Wireless Central Regulatory Domain Database
<b>wpa-supPLICant</b>	wpa-supPLICant	2.10	BSD-3-Clause	Client for Wi-Fi Protected Access (WPA)
<b>wpa-supPLICant</b>	wpa-supPLICant-cli	2.10	BSD-3-Clause	Client for Wi-Fi Protected Access (WPA)
<b>wpa-supPLICant</b>	wpa-supPLICant-passphrase	2.10	BSD-3-Clause	Client for Wi-Fi Protected Access (WPA)

List of packages present on image (**image-userfs**)

Recipe Name	Package Name	Version	License	Description
<b>linux-examples-stm32mp1</b>	linux-examples-stm32mp1-userfs	5.4+AUTOINC+8e1c0b246c	MIT	ST STM32MP1 projects for Linux examples

List of packages present on image (image-resize-initrd)

Recipe Name	Package Name	Version	License	Description
<b>busybox</b>	busybox	1.35.0	GPL-2.0-only & bzip2-1.0.4	Tiny versions of many common UNIX utilities in a single small executable
<b>e2fsprogs</b>	e2fsprogs	1.46.5	GPL-2.0-only & LGPL-2.0-only & BSD-3-Clause & MIT	Ext2 Filesystem Utilities
<b>e2fsprogs</b>	e2fsprogs- badblocks	1.46.5	GPL-2.0-only	Ext2 Filesystem Utilities
<b>e2fsprogs</b>	e2fsprogs- dumpe2fs	1.46.5	GPL-2.0-only	Ext2 Filesystem Utilities
<b>e2fsprogs</b>	e2fsprogs-e2fsck	1.46.5	GPL-2.0-only	Ext2 Filesystem Utilities
<b>e2fsprogs</b>	e2fsprogs-mke2fs	1.46.5	GPL-2.0-only	Ext2 Filesystem Utilities
<b>e2fsprogs</b>	e2fsprogs-resize2fs	1.46.5	GPL-2.0-only & LGPL-2.0-only & BSD-3-Clause & MIT	Ext2 Filesystem Utilities
<b>e2fsprogs</b>	e2fsprogs-tune2fs	1.46.5	GPL-2.0-only	Ext2 Filesystem Utilities
<b>eudev</b>	eudev	3.2.10	GPL-2.0-or-later & LGPL-2.1-or-later	eudev is a fork of systemd's udev
<b>initramfs- framework</b>	initramfs- framework-base	1.0	MIT	Modular initramfs system
<b>initramfs- framework</b>	initramfs-module- rootfs	1.0	MIT	initramfs support for locating and mounting the root partition
<b>initramfs- framework</b>	initramfs-module- udev	1.0	MIT	initramfs support for udev

<b>initrd-boot</b>	initrd-boot	1.0	MIT	Resize init script
<b>util-linux</b>	libblkid1	2.37.4	GPL-2.1-or-later	util-linux libblkid
<b>glibc</b>	libc6	2.35	GPL-2.0-only & LGPL-2.1-only	GLIBC (GNU C Library)
<b>e2fsprogs</b>	libcom-err2	1.46.5	GPL-2.0-only & LGPL-2.0-only & BSD-3-Clause & MIT	Ext2 Filesystem Utilities
<b>e2fsprogs</b>	libe2p2	1.46.5	GPL-2.0-only & LGPL-2.0-only & BSD-3-Clause & MIT	Ext2 Filesystem Utilities
<b>e2fsprogs</b>	libext2fs2	1.46.5	GPL-2.0-only & LGPL-2.0-only & BSD-3-Clause & MIT	Ext2 Filesystem Utilities
<b>kmod</b>	libkmod2	29	LGPL-2.1-or-later	Tools for managing Linux kernel modules
<b>xz</b>	liblzma5	5.2.6	PD	Utilities for managing LZMA compressed files
<b>e2fsprogs</b>	libss2	1.46.5	GPL-2.0-only & LGPL-2.0-only & BSD-3-Clause & MIT	Ext2 Filesystem Utilities
<b>util-linux-libuuid</b>	libuuid1	2.37.4	BSD-3-Clause	A suite of basic system administration utilities
<b>zlib</b>	libz1	1.2.11	Zlib	Zlib Compression Library
<b>opkg-utils</b>	update-alternatives-opkg	0.5.0	GPL-2.0-or-later	Utility for managing the alternatives system

○ Additional Modules

7-Zip

- Git

<https://github.com/ip7z/7zip>

## License

7-Zip source code

~~~~~

License for use and distribution

~~~~~

7-Zip Copyright (C) 1999-2025 Igor Pavlov.

The licenses for files are:

- CPP/7zip/Compress/Rar\* files: the "GNU LGPL" with "unRAR license restriction"
- CPP/7zip/Compress/LzfseDecoder.cpp: the "BSD 3-clause License"
- C/ZstdDec.c: the "BSD 3-clause License"
- C/Xxh64.c: the "BSD 2-clause License"
- Some files are "public domain" files, if "public domain" status is stated in source file.
- the "GNU LGPL" for all other files. If there is no license information in some source file, that file is under the "GNU LGPL".

The "GNU LGPL" with "unRAR license restriction" means that you must follow both

"GNU LGPL" rules and "unRAR license restriction" rules.

#### GNU LGPL information

-----

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but **WITHOUT ANY WARRANTY**; without even the implied warranty of **MERCHANTABILITY** or **FITNESS FOR A PARTICULAR PURPOSE**. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, you can get a copy of the GNU Lesser General Public License from <http://www.gnu.org/>

## BSD 3-clause License in 7-Zip code

---

The "BSD 3-clause License" is used for the following code in 7z.dll

1) LZFSE data decompression.

CPP/7zip/Compress/LzfseDecoder.cpp.

That code was derived from the code in the "LZFSE compression library" developed by Apple Inc, that also uses the "BSD 3-clause License".

2) ZSTD data decompression.

C/ZstdDec.c

that code was developed using original zstd decoder code as reference code.

The original zstd decoder code was developed by Facebook Inc, that also uses the "BSD 3-clause License".

Copyright (c) 2015-2016, Apple Inc. All rights reserved.

Copyright (c) Facebook, Inc. All rights reserved.

Copyright (c) 2023-2025 Igor Pavlov.

Text of the "BSD 3-clause License"

---

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

**THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT**

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---

BSD 2-clause License in 7-Zip code

-----

The "BSD 2-clause License" is used for the XXH64 code in 7-Zip.

C/Xxh64.c

XXH64 code in 7-Zip was derived from the original XXH64 code developed by Yann Collet.

Copyright (c) 2012-2021 Yann Collet.

Copyright (c) 2023-2025 Igor Pavlov.

Text of the "BSD 2-clause License"

-----

Redistribution and use in source and binary forms, with or without modification,

are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

**THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.**

---

**unRAR license restriction**

-----

The decompression engine for RAR archives was developed using source code of unRAR program.

All copyrights to original unRAR code are owned by Alexander Roshal.

The license for original unRAR code has the following restriction:

The unRAR sources cannot be used to re-create the RAR compression algorithm, which is proprietary. Distribution of modified unRAR sources in separate form or as a part of other software is permitted, provided that it is clearly stated in the documentation and source comments that the code may not be used to develop a RAR (WinRAR) compatible archiver.

--

OpenCV

**License**

Apache License

Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the

Work and such Derivative Works in Source or Object form.

3. **Grant of Patent License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. **Redistribution.** You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor,

except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor

has been advised of the possibility of such damages.

9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

**END OF TERMS AND CONDITIONS**

**APPENDIX: How to apply the Apache License to your work.**

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

ade

License

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,

including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions

to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. **Grant of Patent License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. **Redistribution.** You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside

or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

#### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

Flatbuffers

**License**

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

**TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION**

## 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner

or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices

stating that You changed the files; and

- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed

as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer,

and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

#### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

ittnotify

- Git

<https://github.com/opencv/opencv/tree/4.x/3rdparty/ittnotify>

#### License

The GNU General Public License (GPL)

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

## Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

#### TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice

that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete

source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent

license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all

derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

##### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

libtiff

## License

Copyright (c) 1988-1997 Sam Leffler

Copyright (c) 1991-1997 Silicon Graphics, Inc.

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that (i) the above copyright notices and this permission notice appear in all copies of the software and related documentation, and (ii) the names of Sam Leffler and Silicon Graphics may not be used in any advertising or publicity relating to the software without the specific, prior written permission of Sam Leffler and Silicon Graphics.

**THE SOFTWARE IS PROVIDED "AS-IS" AND WITHOUT WARRANTY OF ANY KIND, EXPRESS, IMPLIED OR OTHERWISE, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

**IN NO EVENT SHALL SAM LEFFLER OR SILICON GRAPHICS BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES OF ANY KIND, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER OR NOT ADVISED OF THE POSSIBILITY OF DAMAGE, AND ON ANY THEORY OF LIABILITY, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE**

OF THIS SOFTWARE.

opengl

#### License

Copyright (c) 2008-2015 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and/or associated documentation files (the "Materials"), to deal in the Materials without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Materials, and to permit persons to whom the Materials are furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Materials.

**MODIFICATIONS TO THIS FILE MAY MEAN IT NO LONGER ACCURATELY REFLECTS KHRONOS STANDARDS. THE UNMODIFIED, NORMATIVE VERSIONS OF KHRONOS SPECIFICATIONS AND HEADER INFORMATION ARE LOCATED AT**

<https://www.khronos.org/registry/>

**THE MATERIALS ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,**

EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

protobuf

#### License

Copyright 2008 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from

this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner of the input file used when generating it. This code is not standalone and requires a support library to be linked with it. This support library is itself covered by the above license.

quirc

#### License

quirc -- QR-code recognition library

Copyright (C) 2010-2012 Daniel Beer <dlbeer@gmail.com>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

SoftFloat

## License

License for Berkeley SoftFloat Release 3c

John R. Hauser

2017 February 10

The following applies to the whole of SoftFloat Release 3c as well as to each source file individually.

Copyright 2011, 2012, 2013, 2014, 2015, 2016, 2017 The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions, and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

**THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS", AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE**

DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

zlib

## License

Copyright notice:

(C) 1995-2022 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not

claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly

Mark Adler

jloup@gzip.org

madler@alumni.caltech.edu

mupdf (mutool)

- Git

<https://github.com/ArtifexSoftware/mupdf>

## License

### GNU AFFERO GENERAL PUBLIC LICENSE

Version 3, 19 November 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The GNU Affero General Public License is a free, copyleft license for

software and other kinds of works, specifically designed to ensure cooperation with the community in the case of network server software.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, our General Public Licenses are intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

Developers that use our General Public Licenses protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License which gives you legal permission to copy, distribute and/or modify the software.

A secondary benefit of defending all users' freedom is that improvements made in alternate versions of the program, if they

receive widespread use, become available for other developers to incorporate. Many developers of free software are heartened and encouraged by the resulting cooperation. However, in the case of software used on network servers, this result may fail to come about. The GNU General Public License permits making a modified version and letting the public access it on a server without ever releasing its source code to the public.

The GNU Affero General Public License is designed specifically to ensure that, in such cases, the modified source code becomes available to the community. It requires the operator of a network server to provide the source code of the modified version running there to the users of that server. Therefore, public use of a modified version, on a publicly accessible server, gives the public access to the source code of the modified version.

An older license, called the Affero General Public License and published by Affero, was designed to accomplish similar goals. This is a different license, not a version of the Affero GPL, but Affero has released a new version of the Affero GPL which permits relicensing under this license.

The precise terms and conditions for copying, distribution and

modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU Affero General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work

for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's

System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its

content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

### 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or

similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

#### 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

## 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
  
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
  
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product

(including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated

place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family,

or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a

fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

## 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions.

Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is

governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

#### 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

#### 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the

Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

#### 11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For

purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner

consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the

parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

#### 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

### 13. Remote Network Interaction; Use with the GNU General Public License.

Notwithstanding any other provision of this License, if you modify the Program, your modified version must prominently offer all users interacting with it remotely through a computer network (if your version supports such interaction) an opportunity to receive the Corresponding Source of your version by providing access to the Corresponding Source from a network server at no charge, through some standard or customary means of facilitating copying of software. This Corresponding Source shall include the Corresponding Source for any work covered by version 3 of the GNU General Public License that is incorporated pursuant to the following paragraph.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the work with which it is combined will remain governed by version 3 of the GNU General Public License.

### 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU Affero General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU Affero General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU Affero General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU Affero General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

**15. Disclaimer of Warranty.**

**THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.**

**16. Limitation of Liability.**

**IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.**

## 17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU Affero General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Affero General Public License for more details.

You should have received a copy of the GNU Affero General Public License along with this program. If not, see <<http://www.gnu.org/licenses/>>.

Also add information on how to contact you by electronic and paper mail.

If your software can interact with users remotely through a computer network, you should also make sure that it provides a way for users to get its source. For example, if your program is a web application, its interface could display a "Source" link that leads users to an archive of the code. There are many ways you could offer source, and different

solutions will be better for different programs; see section 13 for the specific requirements.

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.

For more information on this, and how to apply and follow the GNU AGPL, see <http://www.gnu.org/licenses/>.

extract

- Git

<https://github.com/ArtifexSoftware/extract>

## License

### GNU AFFERO GENERAL PUBLIC LICENSE

Version 3, 19 November 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The GNU Affero General Public License is a free, copyleft license for

software and other kinds of works, specifically designed to ensure cooperation with the community in the case of network server software.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, our General Public Licenses are intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

Developers that use our General Public Licenses protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License which gives you legal permission to copy, distribute and/or modify the software.

A secondary benefit of defending all users' freedom is that improvements made in alternate versions of the program, if they

receive widespread use, become available for other developers to incorporate. Many developers of free software are heartened and encouraged by the resulting cooperation. However, in the case of software used on network servers, this result may fail to come about. The GNU General Public License permits making a modified version and letting the public access it on a server without ever releasing its source code to the public.

The GNU Affero General Public License is designed specifically to ensure that, in such cases, the modified source code becomes available to the community. It requires the operator of a network server to provide the source code of the modified version running there to the users of that server. Therefore, public use of a modified version, on a publicly accessible server, gives the public access to the source code of the modified version.

An older license, called the Affero General Public License and published by Affero, was designed to accomplish similar goals. This is a different license, not a version of the Affero GPL, but Affero has released a new version of the Affero GPL which permits relicensing under this license.

The precise terms and conditions for copying, distribution and

modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU Affero General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work

for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's

System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its

content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

### 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or

similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

#### 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

## 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
  
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
  
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product

(including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated

place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family,

or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a

fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

## 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions.

Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is

governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

#### 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

#### 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the

Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

#### 11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For

purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner

consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the

parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

#### 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

### 13. Remote Network Interaction; Use with the GNU General Public License.

Notwithstanding any other provision of this License, if you modify the Program, your modified version must prominently offer all users interacting with it remotely through a computer network (if your version supports such interaction) an opportunity to receive the Corresponding Source of your version by providing access to the Corresponding Source from a network server at no charge, through some standard or customary means of facilitating copying of software. This Corresponding Source shall include the Corresponding Source for any work covered by version 3 of the GNU General Public License that is incorporated pursuant to the following paragraph.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the work with which it is combined will remain governed by version 3 of the GNU General Public License.

### 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU Affero General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU Affero General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU Affero General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU Affero General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

**15. Disclaimer of Warranty.**

**THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.**

**16. Limitation of Liability.**

**IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.**

## 17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU Affero General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Affero General Public License for more details.

You should have received a copy of the GNU Affero General Public License along with this program. If not, see <<http://www.gnu.org/licenses/>>.

Also add information on how to contact you by electronic and paper mail.

If your software can interact with users remotely through a computer network, you should also make sure that it provides a way for users to get its source. For example, if your program is a web application, its interface could display a "Source" link that leads users to an archive of the code. There are many ways you could offer source, and different

solutions will be better for different programs; see section 13 for the specific requirements.

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.

For more information on this, and how to apply and follow the GNU AGPL, see <http://www.gnu.org/licenses/>.

freetype

- Git

<https://github.com/ArtifexSoftware/thirdparty-freetype2>

## License

### FREETYPE LICENSES

-----

The FreeType 2 font engine is copyrighted work and cannot be used legally without a software license. In order to make this project usable to a vast majority of developers, we distribute it under two mutually exclusive open-source licenses.

This means that *\*you\** must choose *\*one\** of the two licenses described below, then obey all its terms and conditions when using FreeType 2 in

any of your projects or products.

- The FreeType License, found in the file ``docs/FTL.TXT``, which is similar to the original BSD license \*with\* an advertising clause that forces you to explicitly cite the FreeType project in your product's documentation. All details are in the license file. This license is suited to products which don't use the GNU General Public License.

Note that this license is compatible to the GNU General Public License version 3, but not version 2.

- The GNU General Public License version 2, found in ``docs/GPLv2.TXT`` (any later version can be used also), for programs which already use the GPL. Note that the FTL is incompatible with GPLv2 due to its advertisement clause.

The contributed BDF and PCF drivers come with a license similar to that of the X Window System. It is compatible to the above two licenses (see files ``src/bdf/README`` and ``src/pcf/README``). The same holds for the source code files ``src/base/ftstash.c`` and ``include/freetype/internal/ftstash.h``; they were part of the BDF driver in earlier FreeType versions.

The `gzip` module uses the `zlib` license (see ``src/gzip/zlib.h``) which too is compatible to the above two licenses.

The files ``src/autofit/ft-hb.c`` and ``src/autofit/ft-hb.h`` contain code taken almost verbatim from the HarfBuzz file ``hb-ft.cc``, which uses the 'Old MIT' license, compatible to the above two licenses.

The MD5 checksum support (only used for debugging in development builds) is in the public domain.

--- end of LICENSE.TXT ---

gumbo-parser

## License

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical

transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted"

means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made,

use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

#### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

harfbuzz

## License

HarfBuzz is licensed under the so-called "Old MIT" license. Details follow.

For parts of HarfBuzz that are licensed under different licenses see individual files names COPYING in subdirectories where applicable.

Copyright © 2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020 Google, Inc.

Copyright © 2018,2019,2020 Ebrahim Byagowi

Copyright © 2019,2020 Facebook, Inc.

Copyright © 2012 Mozilla Foundation

Copyright © 2011 Codethink Limited

Copyright © 2008,2010 Nokia Corporation and/or its subsidiary(-ies)

Copyright © 2009 Keith Stribley

Copyright © 2009 Martin Hosken and SIL International

Copyright © 2007 Chris Wilson

Copyright © 2005,2006,2020,2021 Behdad Esfahbod

Copyright © 2005 David Turner

Copyright © 2004,2007,2008,2009,2010 Red Hat, Inc.

Copyright © 1998-2004 David Turner and Werner Lemberg

For full copyright notices consult the individual files in the package.

Permission is hereby granted, without written agreement and without license or royalty fees, to use, copy, modify, and distribute this software and its documentation for any purpose, provided that the above copyright notice and the following two paragraphs appear in all copies of this software.

**IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE AND ITS DOCUMENTATION, EVEN IF THE COPYRIGHT HOLDER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.**

**THE COPYRIGHT HOLDER SPECIFICALLY DISCLAIMS ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE SOFTWARE PROVIDED HEREUNDER IS ON AN "AS IS" BASIS, AND THE COPYRIGHT HOLDER HAS NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.**

jbig2dec

- Git

<https://github.com/ArtifexSoftware/jbig2dec>

## License

### GNU AFFERO GENERAL PUBLIC LICENSE

Version 3, 19 November 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The GNU Affero General Public License is a free, copyleft license for

software and other kinds of works, specifically designed to ensure cooperation with the community in the case of network server software.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, our General Public Licenses are intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

Developers that use our General Public Licenses protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License which gives you legal permission to copy, distribute and/or modify the software.

A secondary benefit of defending all users' freedom is that improvements made in alternate versions of the program, if they

receive widespread use, become available for other developers to incorporate. Many developers of free software are heartened and encouraged by the resulting cooperation. However, in the case of software used on network servers, this result may fail to come about. The GNU General Public License permits making a modified version and letting the public access it on a server without ever releasing its source code to the public.

The GNU Affero General Public License is designed specifically to ensure that, in such cases, the modified source code becomes available to the community. It requires the operator of a network server to provide the source code of the modified version running there to the users of that server. Therefore, public use of a modified version, on a publicly accessible server, gives the public access to the source code of the modified version.

An older license, called the Affero General Public License and published by Affero, was designed to accomplish similar goals. This is a different license, not a version of the Affero GPL, but Affero has released a new version of the Affero GPL which permits relicensing under this license.

The precise terms and conditions for copying, distribution and

modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU Affero General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work

for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's

System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its

content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

### 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or

similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

#### 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

## 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
  
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
  
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product

(including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated

place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family,

or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a

fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

## 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions.

Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is

governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

#### 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

#### 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the

Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

#### 11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For

purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner

consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the

parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

#### 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

### 13. Remote Network Interaction; Use with the GNU General Public License.

Notwithstanding any other provision of this License, if you modify the Program, your modified version must prominently offer all users interacting with it remotely through a computer network (if your version supports such interaction) an opportunity to receive the Corresponding Source of your version by providing access to the Corresponding Source from a network server at no charge, through some standard or customary means of facilitating copying of software. This Corresponding Source shall include the Corresponding Source for any work covered by version 3 of the GNU General Public License that is incorporated pursuant to the following paragraph.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the work with which it is combined will remain governed by version 3 of the GNU General Public License.

### 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU Affero General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU Affero General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU Affero General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU Affero General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

**15. Disclaimer of Warranty.**

**THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.**

**16. Limitation of Liability.**

**IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.**

## 17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU Affero General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Affero General Public License for more details.

You should have received a copy of the GNU Affero General Public License along with this program. If not, see <<http://www.gnu.org/licenses/>>.

Also add information on how to contact you by electronic and paper mail.

If your software can interact with users remotely through a computer network, you should also make sure that it provides a way for users to get its source. For example, if your program is a web application, its interface could display a "Source" link that leads users to an archive of the code. There are many ways you could offer source, and different

solutions will be better for different programs; see section 13 for the specific requirements.

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.

For more information on this, and how to apply and follow the GNU AGPL, see <http://www.gnu.org/licenses/>.

lcms2

## License

Little CMS

Copyright (c) 1998-2020 Marti Maria Saguer

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

libjpeg

## License

The Independent JPEG Group's JPEG software

---

---

README for release 9f of 14-Jan-2024

---

---

This distribution contains the ninth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone, Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson, John Korejwa, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16).

#### DOCUMENTATION ROADMAP

=====

This file contains the following sections:

OVERVIEW	General description of JPEG and the IJG software.
LEGAL ISSUES	Copyright, lack of warranty, terms of distribution.
REFERENCES	Where to learn more about JPEG.
ARCHIVE LOCATIONS	Where to find newer versions of this software.
ACKNOWLEDGMENTS	Special thanks.
FILE FORMAT WARS	Software <i>*not*</i> to get.
TO DO	Plans for future IJG releases.

Other documentation files in the distribution are:

**User documentation:**

<code>install.txt</code>	How to configure and install the IJG software.
<code>usage.txt</code>	Usage instructions for <code>cjpeg</code> , <code>djpeg</code> , <code>jpegtran</code> , <code>rdjpgcom</code> , and <code>wrjpgcom</code> .
<code>*.1</code>	Unix-style man pages for programs (same info as <code>usage.txt</code> ).
<code>wizard.txt</code>	Advanced usage instructions for JPEG wizards only.
<code>cdaltui.txt</code>	Description of alternate user interface for <code>cjpeg/djpeg</code> .
<code>change.log</code>	Version-to-version change highlights.

**Programmer and internal documentation:**

<code>libjpeg.txt</code>	How to use the JPEG library in your own programs.
<code>example.c</code>	Sample code for calling the JPEG library.
<code>structure.txt</code>	Overview of the JPEG library's internal structure.
<code>filelist.txt</code>	Road map of IJG files.
<code>coderrules.txt</code>	Coding style rules --- please read if you contribute code.

Please read at least the files `install.txt` and `usage.txt`. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

## OVERVIEW

---

---

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG

decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES

=====

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2024, Thomas G. Lane, Guido Vollbeding.  
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:

- (1) If any part of the source code for this software is distributed, then this

README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.

(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

## REFERENCES

---

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is  
Wallace, Gregory K. "The JPEG Still Picture Compression Standard",  
Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.  
(Adjacent articles in that issue discuss MPEG motion picture compression,  
applications of JPEG, and related topics.) If you don't have the CACM issue  
handy, a PDF file containing a revised version of Wallace's article is  
available at <https://www.ijg.org/files/Wallace.JPEG.pdf>. The file (actually  
a preprint for an article that appeared in IEEE Trans. Consumer Electronics)  
omits the sample images that appeared in CACM, but it includes corrections

and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential

of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

IJG JPEG 8 introduced an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany.

IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) :

Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from <https://www.itu.int/rec/T-REC-T.871>. A PDF file of the older JFIF document is available at <https://www.w3.org/Graphics/JPEG/jfif3.pdf>.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <https://www.ijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

## ARCHIVE LOCATIONS

---

The "official" archive site for this software is [www.ijg.org](http://www.ijg.org).  
The most recent released version can always be found there in

directory "files". This particular version will be archived in Windows-compatible "zip" archive format as <https://www.ijg.org/files/jpegsr9f.zip>, and in Unix-compatible "tar.gz" archive format as <https://www.ijg.org/files/jpegsrc.v9f.tar.gz>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>. If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body

send usenet/news.answers/jpeg-faq/part1

send usenet/news.answers/jpeg-faq/part2

## ACKNOWLEDGMENTS

---

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful

communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the [ijg.org](http://ijg.org) site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, Ulf-Dietrich Braumann, and Nina Ssymank for support and public relations.

#### FILE FORMAT WARS

---

---

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original

JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification.

Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.

The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.

We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases.

Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent.

The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet.

People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the foreclosed institutions and corporations.

IJG asserts what is: that each man, woman, and child has unalienable value and rights granted and deposited in them by the Creator and not any one of the people is subordinate to any artificial principality, corporate fiction or the special interest of another without their appropriate knowing, willing and intentional consent made by contract or accommodation agreement.

IJG expresses that which already was.

The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable.

IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO

====

Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec.

More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to [jpeg-info@ijg.org](mailto:jpeg-info@ijg.org).

mujs

License

ISC License

Copyright (c) 2013-2020 Artifex Software, Inc.

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

openjpeg

#### License

/\*

- \* The copyright in this software is being made available under the 2-clauses
- \* BSD License, included below. This software may be subject to other third
- \* party and contributor rights, including patent rights, and no such rights
- \* are granted under this license.

\*

\* Copyright (c) 2002-2014, Universite catholique de Louvain (UCL), Belgium

\* Copyright (c) 2002-2014, Professor Benoit Macq

\* Copyright (c) 2003-2014, Antonin Descampe

\* Copyright (c) 2003-2009, Francois-Olivier Devaux

\* Copyright (c) 2005, Herve Drolon, FreeImage Team

\* Copyright (c) 2002-2003, Yannick Verschueren

\* Copyright (c) 2001-2003, David Janssens

\* Copyright (c) 2011-2012, Centre National d'Etudes Spatiales (CNES), France

\* Copyright (c) 2012, CS Systemes d'Information, France

\*

\* All rights reserved.

\*

\* Redistribution and use in source and binary forms, with or without

\* modification, are permitted provided that the following conditions

\* are met:

\* 1. Redistributions of source code must retain the above copyright

\* notice, this list of conditions and the following disclaimer.

\* 2. Redistributions in binary form must reproduce the above copyright

\* notice, this list of conditions and the following disclaimer in the

\* documentation and/or other materials provided with the distribution.

\*

\* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS `AS IS'

\* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE  
\* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE  
\* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE  
\* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR  
\* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF  
\* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS  
\* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN  
\* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)  
\* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE  
\* POSSIBILITY OF SUCH DAMAGE.  
\*/

zlib

## License

Copyright notice:

(C) 1995-2022 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied  
warranty. In no event will the authors be held liable for any damages  
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,  
including commercial applications, and to alter it and redistribute it

freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly

Mark Adler

jloup@gzip.org

madler@alumni.caltech.edu

ax\_check\_link\_flag

- Git

[http://git.savannah.gnu.org/gitweb/?p=autoconf-archive.git;a=blob\\_plain;f=m4/ax\\_check\\_link\\_flag.m4](http://git.savannah.gnu.org/gitweb/?p=autoconf-archive.git;a=blob_plain;f=m4/ax_check_link_flag.m4)

#### License

```
# LICENSE
```

```
#
```

```
# Copyright (c) 2008 Guido U. Draheim <guidod@gmx.de>
```

```
# Copyright (c) 2011 Maarten Bosmans <mkbosmans@gmail.com>
```

```
#
```

```
# This program is free software: you can redistribute it and/or modify it
```

```
# under the terms of the GNU General Public License as published by the
# Free Software Foundation, either version 3 of the License, or (at your
# option) any later version.
#
# This program is distributed in the hope that it will be useful, but
# WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General
# Public License for more details.
#
# You should have received a copy of the GNU General Public License along
# with this program. If not, see <https://www.gnu.org/licenses/>.
#
# As a special exception, the respective Autoconf Macro's copyright owner
# gives unlimited permission to copy, distribute and modify the configure
# scripts that are the output of Autoconf when processing the Macro. You
# need not follow the terms of the GNU General Public License when using
# or distributing such scripts, even though portions of the text of the
# Macro appear in them. The GNU General Public License (GPL) does govern
# all other use of the material that constitutes the Autoconf Macro.
#
# This special exception to the GPL applies to versions of the Autoconf
# Macro released by the Autoconf Archive. When you make and distribute a
# modified version of the Autoconf Macro, you may extend this special
```

```
# exception to the GPL to apply to your modified version as well.
```

ax\_code\_coverage

- Git

[https://git.savannah.gnu.org/gitweb/?p=autoconf-archive.git;a=blob\\_plain:f=m4/ax\\_code\\_coverage.m4](https://git.savannah.gnu.org/gitweb/?p=autoconf-archive.git;a=blob_plain:f=m4/ax_code_coverage.m4)

## License

```
# LICENSE
#
# Copyright (c) 2012, 2016 Philip Withnall
# Copyright (c) 2012 Xan Lopez
# Copyright (c) 2012 Christian Persch
# Copyright (c) 2012 Paolo Borelli
# Copyright (c) 2012 Dan Winship
# Copyright (c) 2015 Bastien ROUCARIES
#
# This library is free software; you can redistribute it and/or modify it
# under the terms of the GNU Lesser General Public License as published by
# the Free Software Foundation; either version 2.1 of the License, or (at
# your option) any later version.
#
# This library is distributed in the hope that it will be useful, but
# WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser
```

```
# General Public License for more details.
#
# You should have received a copy of the GNU Lesser General Public License
# along with this program. If not, see <https://www.gnu.org/licenses/>.
```

ax\_cxx\_compile\_stdcxx

#### License

```
# LICENSE
#
# Copyright (c) 2008 Benjamin Kosnik <bkoz@redhat.com>
# Copyright (c) 2012 Zack Weinberg <zackw@panix.com>
# Copyright (c) 2013 Roy Stogner <roystgnr@ices.utexas.edu>
# Copyright (c) 2014, 2015 Google Inc.; contributed by Alexey Sokolov <sokolov@google.com>
# Copyright (c) 2015 Paul Norman <penorman@mac.com>
# Copyright (c) 2015 Moritz Klammler <moritz@klammler.eu>
# Copyright (c) 2016 Krzesimir Nowak <qdlacz@gmail.com>
#
# Copying and distribution of this file, with or without modification, are
# permitted in any medium without royalty provided the copyright notice
# and this notice are preserved. This file is offered as-is, without any
# warranty.
```

ax\_pthread

- Git

[http://git.savannah.gnu.org/gitweb/?p=autoconf-archive.git;a=blob\\_plain;f=m4/ax\\_pthread.m4](http://git.savannah.gnu.org/gitweb/?p=autoconf-archive.git;a=blob_plain;f=m4/ax_pthread.m4)

## License

```
# LICENSE
#
# Copyright (c) 2008 Steven G. Johnson <stevenj@alum.mit.edu>
# Copyright (c) 2011 Daniel Richard G. <skunk@iSKUNK.ORG>
#
# This program is free software: you can redistribute it and/or modify it
# under the terms of the GNU General Public License as published by the
# Free Software Foundation, either version 3 of the License, or (at your
# option) any later version.
#
# This program is distributed in the hope that it will be useful, but
# WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General
# Public License for more details.
#
# You should have received a copy of the GNU General Public License along
# with this program. If not, see <https://www.gnu.org/licenses/>.
#
# As a special exception, the respective Autoconf Macro's copyright owner
# gives unlimited permission to copy, distribute and modify the configure
```

```
# scripts that are the output of Autoconf when processing the Macro. You
# need not follow the terms of the GNU General Public License when using
# or distributing such scripts, even though portions of the text of the
# Macro appear in them. The GNU General Public License (GPL) does govern
# all other use of the material that constitutes the Autoconf Macro.
#
# This special exception to the GPL applies to versions of the Autoconf
# Macro released by the Autoconf Archive. When you make and distribute a
# modified version of the Autoconf Macro, you may extend this special
# exception to the GPL to apply to your modified version as well.
```

font-tools

## License

MIT License

Copyright (c) Microsoft Corporation.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE

nlohmann

#### License

MIT License

Copyright (c) 2013-2022 Niels Lohmann

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is

furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

azure-iot-sdk-c

#### License

Microsoft Azure IoT SDKs

Copyright (c) Microsoft Corporation

All rights reserved.

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell

copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED \*AS IS\*, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

#### **License (Third Party Notices)**

##### **Third Party Notices for Azure IoT SDKs project**

This project incorporates material from the project(s) listed below (collectively, "Third Party Code").

Microsoft Corporation is not the original author of the Third Party Code.

The original copyright notice and license, under which Microsoft Corporation received such Third Party Code, are set out below. This Third Party Code is licensed to you under their original license terms set forth below.

Microsoft Corporation reserves all other rights not expressly granted, whether by implication, estoppel or otherwise.

Parson, obtained from <https://github.com/kgabis/parson.git>

## Parson License

-----

/\* =====

### \* MIT License

\*

\* Copyright (c) 2012 - 2017 Krzysztof Gabis

\*

\* Permission is hereby granted, free of charge, to any person obtaining a copy

\* of this software and associated documentation files (the "Software"), to deal

\* in the Software without restriction, including without limitation the rights

\* to use, copy, modify, merge, publish, distribute, sublicense, and/or sell

\* copies of the Software, and to permit persons to whom the Software is

\* furnished to do so, subject to the following conditions:

\*

\* The above copyright notice and this permission notice shall be included in

\* all copies or substantial portions of the Software.

\*

\* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

\* IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

\* FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

\* AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER  
\* LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,  
\* OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN  
\* THE SOFTWARE.  
\*/

FreeRTOS

## License

### MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

**AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.**